

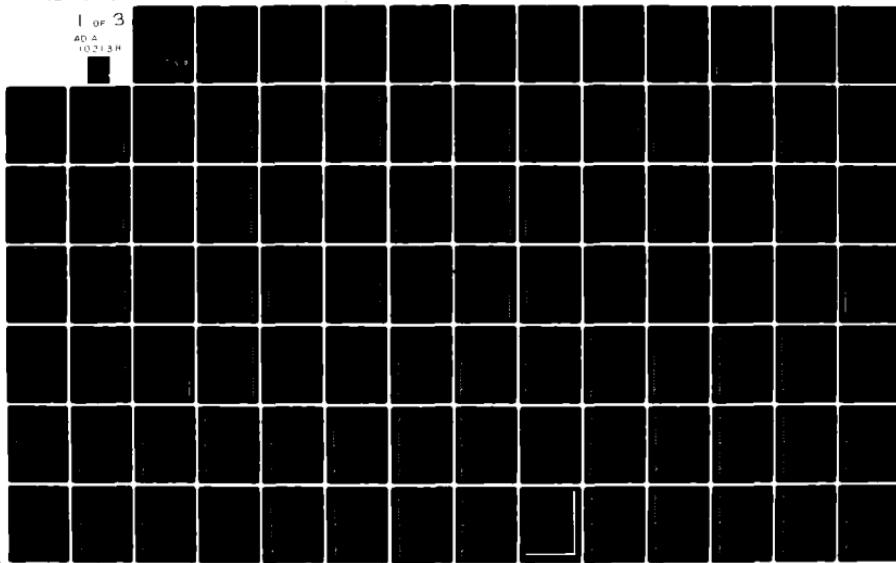
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ADVANCED HYDROFOIL DEVELOPMENT TRIALS PROGRAM DOCUMENTATION REV--ETC(U)
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ADVANCED HYDROFOIL DEVELOPMENT TRIALS PROGRAM
DOCUMENTATION REVIEW

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REF ID: A6220

REF ID: A6221

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ADVANCED HYDROFOIL DEVELOPMENT TRIALS PROGRAM

DOCUMENTATION REVIEW

INTRODUCTION

Background

FY 78 Congressional action, delineated in House Report 95-451, required the Navy to deactivate/methball the PLAINVIEW (AGEH-1) and HIGH POINT (PCH-1) by 30 September 1978.* The DTNSRDC Advanced Hydrofoil Program Office reviewed the trials program documentation for these two hydrofoils for completeness and for the data generated prior to deactivation. Wheeler Industries, Inc., under contract number N00600-75-D-0799, was tasked (FD 16) to assist DTNSRDC Code 115 in this review. The Statement of Work for this task is given in Enclosure (1).

The task was to review all trials reports of PLAINVIEW and HIGH POINT since 1972 and system modernization documentation on these ships for the period 1973-1977 inclusive and to identify where documentation was incomplete. The Hydrofoil Special Trials Unit (HYSTU) at Bremerton, Wa., The Boeing Co., at Seattle, Wa., and the Advanced Ship Data Bank (ASDB) of DTNSRDC, Carderock, Md., in addition to the Advanced Hydrofoil Program Office at DTNSRDC, were designated sources of documentation. This report summarizes the findings obtained during conduct of the task.

Approach

All trials plans issued or approved Jan 1972 or later and those not completed by Jan 1972 in the technical or mission category were reviewed for reporting requirements and status. WTAs for the years 1975 to the present were also reviewed since these work tasks are now used for trials as well as modification and installations. The ASDB was searched for documents relating to PCH-1 and AGEH-1 and trials. HYSTU and The Boeing Co. Marine Division records were reviewed which required travel to the Seattle, Wa. area, and Hydrofoil Program participants D. Washburn, (NOSC Code 232), W. Buckley (DTNSRDC Code 1730.3), and H. Schab (DTNSRDC Code 2707) were contacted.

The Hydrofoil Program Office personnel (DTNSRDC Code 115 and staff) also provided inputs.

*Senate-House Conference on the 1979 Defense Appropriations Bill agreed 11 October 1978 to retain HIGH POINT as a test vehicle through FY 80.

Preliminary findings, summarized in a report on 17 July 1978, were reviewed by HYSTU, The Boeing Co. Marine Division, and the Hydrofoil Program Office personnel. The comments, additional data, recommendations from the reviews and decisions are reflected in this report.

PENDED MATERIAL

The Boeing Co. Marine Division furnished its listing of trials plans from early 1967 (when the HYSTU last three digit consecutive numbering system for trials plans was started) and WTAs for 1975 to the present. These have been combined with the HYSTU Trials Plans listing, updated with the findings from this task, and are included as Attachments 1 and 2 to this report. The Trials Plans Advanced Ship Data Bank (ASDB) numbers have been added to the Trials Plans Listing under the Trials Plan number. Those plans for which an ASDB number is missing are not in the ASDB and no copy has been found. Attachment 3 contains a listing of voyages of PLAINVIEW (AGEH-1) for the calendar years 1977 and 1978.

A listing of the U.S. Navy hydrofoil development program trials related documentation in the ASDB is provided as Attachment 4. This listing is by categories as follows:

Technical Trials

- Hull Structures
- Propulsion
- Controls
- Auxiliary Systems
- Struts and Foils
- Materials

Mission Trials

- Weapons
- C&C, Navigation, and Sensors
- Signatures

Performance Trials

- Characteristics
- Operational

Structural

Hydrodynamics

Within these categories the entries are by corporate author alphabetically and, within this source, chronologically.

There are a total of 564 trials related documents in the ASDB.

The last fourteen pages of the computer printout contains all the trials related documentation classified with relevance 1, 2 or 3.

BRIEF SUMMARY OF FINDINGS

The results obtained are grouped in several categories and presented in Tables 1 through 3. Each table is discussed in the following paragraphs.

1. Plans for Which Reporting was Incomplete

Table 1 contains a sequential listing of Trials Plans which may be of significance and which were not completed at the time of this review. Status, comments, and recommender's disposition of the Trials Plans are provided. Recommendations are based on comments from program participants.

This listing is shorter than the one in the Preliminary Report of 17 July 1978 since documentation from some of the plans has been located and copies obtained for the ASDB.

2. Trial Related WTAs not Fully Completed

All of the work tasks noted in Table 2 will have documentation prepared for them by The Boeing Co. WTA 0618-75-002H, "History of Hydrofoil Foreign Object Impacts", noted in the Preliminary Report of 17 July 1978, was found to have been cancelled due to the extent of recording hunting that would be required to recover data. This seems unfortunate since the question of the frequency and seriousness of object impacts seems to always arise in discussions on hydrofoil applications.

3. AGEH-1 Overhaul and Mod-Major Modifications Documentation

Table 3 contains a listing, with comments, on the status of selected overhaul and Mod documentation significant enough to warrant expending effort to obtain.

4. Suggestions for Development and Tests

There were several comments received during the performance of this task on AGEH-1 subsystems

for which some additional testing or development would be of value to the Advanced Hydrofoil Systems Development Program. Some program participants suggested that inclusion of these items in the report is beyond the scope of the task, and that an industry-government planning conference covering all future development/trials effort would be the appropriate vehicle for addressing the suggestions.

Accordingly, only the subsystems of interest that were mentioned are listed, as follows:

- AGEH-1 Transmission System powering tests
- HY130 tail strut
- Lube oil water separator bench tests
- Waste disposal system developments
- PACS disposition

5. Existing Documentation not in ASDB

A number of pieces of documentation existing for PCW-1 and AGEH-1 were identified as having never found their way into the ASDB. Those identified and available have been obtained, classified, and entered into the ASDB.

6. Other

- a. Reports from WTAs are not distributed to the ASDB. They must be requested. For example, the Ships' Plan Index (SPI) updating (1107-78-003P) is still to be completed; it was requested during the visit to The Boeing Co. Reports of interest prepared on other WTAs will have to be requested by DTNSRDC (HYSTU) for the ASDB.
- b. Pressure sensing trial requested by Van Bibber and already run has no Trial Plan, WTA or official agenda. Copy of his report due by the end of the FY.

ADDITIONAL COMMENTS AND OBSERVATIONS

1. Structural Trials

- a. PCH-1 present trials data to be reported out by DTNSRDC Code 173 in a blue cover report but funds are needed for printing as soon as report is finished.
- b. Still no sufficiently defined loads on hull, S/F, or king post for efficient design. (This was a DTNSRDC Code 173 comment).

2. ASDB ENTRIES

A number of reports filed on Trials Plans were not classified for entry into the ASDB referencing the Trials Plans. A number of classification errors and omissions on report content were also noted. About 200 classification sheets were pulled and have been updated/corrected.

The document and trials plans listed below were not in the Advanced Ship Data Bank. They have now been classified and will be added to the data base during the November up-date scheduled for 2 November 1978. These documents, therefore, do not appear in Attachment four, the computer print-out of trials related documentation.

| <u>Trials Plan No.</u> | <u>LB/No.</u> |
|---|---------------|
| ANA042-A337 | 10-U10074 |
| AHY101-SP338 | 10-U10075 |
| ANA044-A340 | 10-U10076 |
| AHY104-H341 | 10-U10077 |
| CNE031-P320 | 10-CO1223 |
| CNE032-P321 | 10-CO1224 |
| CNE033-P322 | 10-CO1225 |
| Ltr. Ser. 47-76 (10/76) for Trials Plans BHY097-P333 | 10-U08412 |

3. Number of Trials Plans

As a matter of interest the number of trials plans (or equivalent agendas) are shown in Figure 1 for the years since 1971. The effect of AGEH-1 mod time and the decrease in program funding for hydrofoil development is readily apparent.

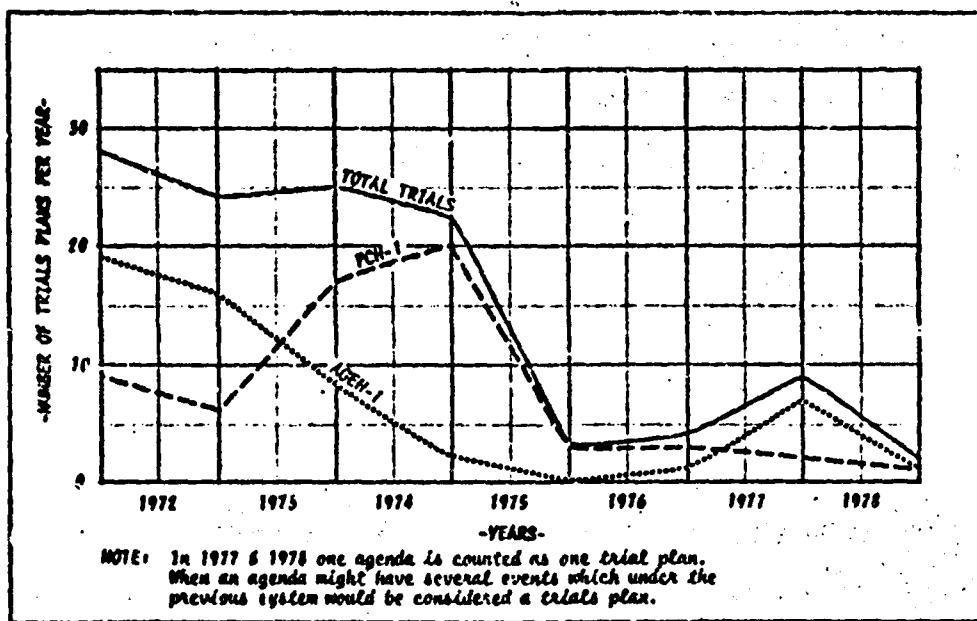


Figure 1 Total number of trials conducted by year.

TABLE I. TRIALS PLANS NOT FLUENT COMPILED

| <u>TRIALS PLANS NUMBER</u> | <u>DATE ISSUED OR APPROVED</u> | <u>TITLE</u> | <u>COMMENTS</u> | <u>ACTION/STATUS/DISPOSITION</u> |
|--------------------------------|--|--|--|---|
| 1. Antennae | Approved 7/23/70 Ser 152-43; Rev A 10/16/70 Ser. 154-70 | Passive Cathodic Protection System for AGOR-1 | Plan revised to use sprayed zinc ball coating passive system or impressed Current Cathodic Protection (ICCP) active system. The zinc spray was abandoned as impractical. The ICCP was installed in the AGOR-1 and was shut down when blisters appeared on the shield or anodes. | Canceled: Tests, not run under controlled conditions. Provided little data to form basis for report. |
| 2. Antennae | Approved 11/22/71 Rev. Ser 350-71 | AGOR-1 Glio Water PHT Lead Characteristics (Part A) | At 8 Oct 1974 Trial, Board meeting, Sea States 3 and 4 data requested to be included in report but see state data obtained from the se trials is very limited. | Canceled: Better ball lead data available from other trials. Data obtained is not worth cost of extraction and reporting. |
| 3. Antennae | Approved 11/20/71 Rev. Ser 351-71 | PLANTIN (AGOR-1) Helibore Rough Water Motion Characteristics | Boeing Ltr Rev 2-1524-1000-388 (4/8/73) noted that trials only 25% complete and manner in which trials conducted precluded valid data reduction and reporting. | Canceled: Further tests on PLANTIN were required. With PLANTIN take-off procedure could be altered to reduce time duration and minimize risk of territorial waters acceptable limits. |
| 4. Antennae | Approved 7/21/72 Ser 255-72 | Force Verification of Pelletene Propellors on PLANTIN (AGOR-1) | Trial results inconclusive. Testing was attempted to determine if Glio on territories is just prior to test -off. | Canceled: No funds to install mast, which can be tested on another ship. |
| 5. Antennae | Approved 11/7/72 Ser 255-72 | Wave Destructon Systems on Hydrofoils | No shipboard trial conducted. Searched to assure unit workable in hydrofoils. Returned unit to ONR. | DATA/DOC Code 151 plus additional trim and speed-surface data for Detonation Characteristics. Statistics gathered from trials plus, when clean cut. |
| 6. Antennae | Approved 4/6/73 Ser 255-73 | PCF-1 Mod 1 Search Water Characterization | Boeing data in form of curves for inclination in ship. Definitive Characteristics Bldtr submitted by boeing 10-2-1524-1000-1248 (4/29/74). Minimum but adequate data on most normal folloows ops except air-speed-power included. Definitive Characteristics Bldtr as ASDB not updated with this data. | |

TABLE I. TRIALS PLANS NOT FULLY COMPLETED (continued)

| <u>TRIALS PLANS NUMBER</u> | <u>DATE ISSUED OR APPROVED</u> | <u>TITLE</u> | <u>CONTENTS</u> | <u>ACTION/STATUS/POSITION</u> |
|----------------------------|--|---|---|--|
| 7. ENR0002-7302 | Approved 8/7/73 Rev. A approved 11/19/73 Ser. 30-73 | Marine Height Sensor Competition Evaluation | Testing included some rapid fire conventional weapon tests which should be reported on. | Closed out. Continue reports from this plan and ENR03-73021 two report for plan ANTR4-R1-41. Rev. B report number 2-1324-3000-1032 (AFSC 0 10-1324-3000-1032) provides additional information. |
| 8. ENR0002-7303 | Approved 1/7/74 Ser. 32-74 Rev. 1/22/74 Ser. 38-74 | High Water Trials PCR-1 MOD 1 Rev. B | Limited number of events run. Closed out with note that new trials plan is prepared. | Closed out. Report for trials 0100 AFSC 0 10-1324-3000-1032 will contain results from these trials plus. |
| 9. CNT0003-7313 | Approved 7/9/74 Ser. 22-74 | Underway Deployment Station Fitting with Electronic Devices | PCAS has circuit providing programmed station keeping feature. | Completed. If PCAS is installed on HIGHPOLAR prepare new test plan to cover station keeping feature. |
| 10. ENR0004-7307 | Approved 1/7/74 Rev. A 12/4/74 Rev. B 1/27/75 | MOD Test - Effect of Varying Selsus on Hullborne Motion | Aborted trials. Insufficient sea state. | Canceled. Hullborne motion not enough water to do AFSC 0 10-1324-3000-1031. |
| 11. CNT0003-7321 | 7/9/74 | Report (Rev 2) Scatter/HIGH POLAR ROC Trials (U) Confidential | Only ROC portion of trials conducted. | Canceled. Data set of sufficient value to support cost now. |
| 12. ENR0004-7323 | Approved 8/7/74 Rev. 30-74 | Sundstrand AN/F Radar Altimeter - Height Sensor Evaluation on Hydrofoils | PCR-1 Rev. 3000 Rev 3-76 (2/2/76) (see- ved by HIGHPOLAR memo 1134-078W; Rev 12/5/76 and NLLC-0100-17/8 2004 (3/19/76) contained AN/F Radar Altimeter test results on PCR-1 and PCR-1. | Closed out. Continue data from this trials plan and plan ENR03-73021 Rev. B report for plan AFSC 0 10-1324-3000-1031. |
| 13. ENR0004-7328 | Approved 9/7/874 Rev. 12/4/74 Rev. 1/16/75 | Evaluation of September 1974 hydrofoil Digital Autopilot (DADAP) Configuration on PCR-1 MOD 1 | Trials verified minor improvements to barling hold. Lode in circuit on heading change, reduced hullborne gains, faster turns on Williamson turns. | Closed out. Report not complete in character only. |
| 14. ANTR003-7329 | Approved 12/4/74 | PC-1 MOD 1 Flap Effectiveness & Static Dynamic Barling Movements and Follwing Braking | Trials data reduced and sent to DT/NRDC Code 1307 for report. Pre- liminary look at results shows large scatter, no trends. | Canceled. Oust to do complete analysis too high to warrant questionable results. |

TABLE 1. TRIALS PLANS NOT FULLY COMPLETED (continued)

| TRIALS PLANS NUMBER | DATE ISSUED OR APPROVED | TITLE | CONTENTS | ACTION/STATUS/DISPOSITION |
|------------------------|----------------------------|---|--|---|
| 15. ANV005-P009 | Approved 12/6/73 | Usoe Litte PCN Mod 1 Smooth Water Speed and Powering | PCN-1 Mod 1 speed and powering data from these and other pertinent trials were used to define a median speed-power curve for the ANVCE study. Re IIR ref no 2-1524-1000- 1137 (8/1/75) submitted. | DTRNSRDC Code 1131.3 prepare report on pertinent data for PCN-4 Smooth Water Trial Plans. DTRNSRDC Code 1131 submit report of months data on PCN-1 in ship Ballistic Characteristic Data Sheet or, when done, out. |
| 16. ANV007-P221 | | PCN-1 1973 Rough Water Trials | This was a major trials effort and results were used for inputs to the loads criteria data. | DTRNSRDC Code 1131 estimate for report to be prepared on PCN-1 forward if still continued. Close out. |
| 17. ANV007-P224 | | PCN-1 [Forward PCN] Continuation | Review of the trials data is presented in Be Cour Sheet H-7530-7504-013 (10/4/76). "Analysis of PEGASUS (PUN-1) and HIGHPOINT (PCN-1, Mod 1) Full Configuration and Chamber." | Cancel. All equipment has been forwarded to USCC for confirmation of tests. |
| 18. ANV008-P233 | 12/23/73 | Nockell International Anti-G-Cluster Radar System (ACR) Evaluation | Initial trials were conducted on PCN-1 and results used to update the approach prior to continuation of tests. | DTRNSRDC Code 1131.3 prepare report on trials. AHV-10 trials con- ditions same as those for AHV-6 under SIH703-3-R225. |
| 19. ANV008-P244 | | T.R.I.-AHV-20 Radar Attimeter | | Closed out. No report from KUSC 7313 planned. Rewrite plan for performance tests on PCN-1 or on PW-1-1 as scheduling permits. |
| 20. ANV007-4-H303 | | Experimental Determination of Array Survival Loads | | Boeing to report on testing conducted to date under WTA 1107-75-0107. |
| 21. ANV001-V05 | | ANV001 V05 Trials | | Boeing report scheduled for 8/78. PCN-1 recommend: keep -10's plan active. |

Table 2. TRIAL RELATED WTAs NOT FULLY COMPLETED

| WTA or Operating Procedure Number | Date Approved | Subject | Author | Status/Comment |
|-----------------------------------|---------------|---|------------|---|
| 1. 1107-77-012A | 8/24/77 | Annotating AGEM-1 Post Overhead Checkout Agenda | D. Foreman | In work at present; report due after deactivation. |
| 2. 1107-77-005A | 1/20/77 | PLAINVIEW (AGEM-1) Dutch Roll and Height Transient Investigation. Agenda 77-H-403X. | J. Colemen | Effort commenced mid-Jugust. Final report due after deactivation. |
| 3. 1107-77-003A | 8/24/78 | PLAINVIEW (AGEM-1) characteristics | J. Arnes | Effort commenced about 1 Sept. Final report due after deactivation. |
| 4. 1107-77-710P | 8/24/78 | HIGHPOINT (PCCS-1) characteristic data (fowing configuration) | J. Arnes | Effort commenced mid-Aug. Final report due after deactivation. |
| 5. 1107-77-012A | 8/24/77 | Annotate AGEM-1 PCCS Investigation per Agenda No. 17-1H-A01X 77-11-A02X | J. Colemen | Work to continue on this task starting mid of September. |
| 6. Agenda 77-R-A01X | 8/24/77 | PCCS Pitch Reserve Oscillation Investigation | J. Colemen | Work to continue on this task starting mid of September. |
| 7. Agenda 77-B-A02X | 8/24/77 | Yaw Oscillation Investigation | J. Colemen | Will be completed after deactivation. |
| 8. 0711.1 | 8/24/77 | AGEM-1 Post Overhead Standard Document Checkout | | Test agenda checked; test results mid-August: |
| | | | | <ul style="list-style-type: none"> • 95% for Hydraulic System • 90% for PACS • 15% for AGEM-1 remaining Subsystems |

TABLE 3. AGEH-1 OH AND MOD- MAJOR MODIFICATIONS DOCUMENTATION

- 1. **Fire Fighting System**
Satisfactory. Reports in ASDE.
 - o Boeing WTA 1107-78-006A, "AGEH-1 Hydraulics System Evaluation" Report due after deactivation.
 - o Boeing WTA 06418-74-108AA, "AGEH-1 Hydraulic System Engineering Support" (Approved 7/24/74) Report, due after deactivation:
 - (1) The AGEH-1 New Hydraulic System Operating and Maintenance Manual
 - (2) The AGEH-1 Hydraulic System Schematic.
 - (3) The AGEH-1 Hydraulic System Schematic, updated to reflect "as installed" system.
- 2. **Hydraulic System**
 - o Boeing WTA 1107-78-006A, "PACCS Installation, Operation and Maintenance Chronicle." Report due after deactivation.
 - o Boeing WTA-1107-78-001A, "MANVNW Automatic Control System, Evaluation of," Report due after deactivation.
- 3. **ACB (FUDMAP, PACS)**
 - o Complete. Documentation (Grumman) No. 18 HSTU has requested Grumman Aerospace Corp. to send set of drawings on file. A set of documentation has also been requested for the DTNSRDC ASDE.
- 4. **HY130 Tail Stab**
 - o Boeing WTA 1107-77-010A and Rev. 0, "Examination of Failed AGEH-1 Propeller Blade #977," Metalurgical Lab Report completed; refer to Boeing LR. 11-3538-1000-2331 (12/9/77). DTNSRDC Code 1134.3 propose letter report on history of failures of propeller on AGEH-1.
- 5. **Propeller Failure**
 - o Full power test under Agenda No. 78-II-AD1X, "PLAINVNW AGEH-1 Full Power Trials, Holloman," could not be completed prior to deactivation.
 - o History report will be completed by DTNSRDC Code 2207 10/78.
- 6. **Transmission System**
 - o Thrust meter problems on AGEH-1 were the result of failure, during installation, to protect w/ -4 connectors in the pods from the environment. DTNSRDC Code 1134.3 propose letter report on history of torque and thrust meters on AGEH-1.
- 7. **Toque and Thrust Meter History**
 - o A report by DTNSRDC Code 2707 is recommended. An article in the Naval Engineer Journal Vol. 39, No. 2 (4/77), "GTP Pilots/Shipboard Applications," by H.W. Scheid and G.F. Wilhelm has been obtained for the DTNSRDC ASDE.
- 8. **GTP P: Log History**
 - o

STATEMENT OF WORK

Task: The contractor shall:

- a. review all trial reports of the HIGH POINT and PLAINVIEW since 1972.
- b. Compare trial reports with initial plans and identify all areas where expected results were not attained.
- c. review all system modernization documentation accomplished from 1973-1977 inclusive.
- d. identify where documentation is incomplete regarding work accomplished and results attained.
- e. analyze technology documentation gaps and prepare plan for completing documentation prior to deactivation.

**ADVANCED HYDROFOIL DEVELOPMENT TRIALS PROGRAM
DOCUMENTATION REVIEW**

ATTACHMENT-I TRIALS PLANS LISTING

| Plan & ASDS No. | Issued or Approved | Title | Status |
|--------------------------|---------------------------|---|---|
| CRY002-P001 10-U06922 | 3/10/67 | Dockside Dummy Torpedo Firing | Complete in 1967 |
| ABED01AP002 10-U06922 | 3/10/67 | Foilborne Transmission Disconnect Coupling Modification - Short Range | Complete in 1967 |
| ABED02-P003 10-U06920 | 3/10/67 | Foil Tip Load Alleviation Study | Complete in 1967 |
| ABED06-P004 10-U06920 | 3/21/67 | Inspection Window - Foilborne Upper Gearbox Input Coupling | Complete in 1967 Drydocking |
| CRY001-P005 10-U07026 | 4/12/67 | Ships Service Hydraulic System Modification - Outdrive Retraction | Complete in 1967 |
| CRY003-P006 10-U07027 | 4/12/67 | Torpedo Firing | Complete in 1967 Trials, Document 02-133703-7 |
| CRY004-P007 | | Replenishment at Sea | Complete in 1967 Trials, Document 02-133703-11 |
| ABED07-P008 10-U06917 | 3/28/67; Rev A 4/26/67 | Retraction Mechanism Calibration and Inspection | Complete in 1967 Dockside Tests |
| BBE003-P009 10-U06919 | 3/30/67 | After Foil Tip Structural Test | Complete in 1967 Drydocking Document 02-133703-18 |
| CRY005-P010 | | Navigational Capability | Complete in 1967 Trials, Document 02-133703-9 |
| ABED1AP011 10-U06913 | 3/30/67 | Foil System Coatings | Complete |
| ABY036-P012 10-U07088 | 5/5/67 | Fuel Tank Sealing | Complete in 1967 Drydocking |
| BBE008-P013 10-U06916 | 7/2/68; Rev C 7/5/68 | Forward Strut Pressure Distribution | Complete in 1967 Drydocking, letter report |
| CRY007-P014 10-U07089 | - | Closed Circuit TV Camera Trainable Mount | Canceled; No valid reason for the plan. |
| CNE002-P015 10-U07165 | 5/5/67 | Sonar Bearing & Range Accuracy Test | Canceled; Sonar equipment removed from craft |

| Plan # | ASDR No. | Issued | Title | Status |
|--------------------------|----------|---|--|-------------------------------|
| CNE003-P016 10-U07166 | | | Evaluate Search and Rescue (SAR) Capability-Establish SAR Doctrine | Canceled 11/16/70 Ser. 217-70 |
| ABE009-P017 10-U06915 | 3/30/67 | Modified Fairing at the Foi! System Pod and at System Strut Foi! Intersection | Complete in 1967 drydocking | |
| ABE039-P018 10-U06897 | 5/11/67 | Installation of 75KC Tracking Capability | Complete in 1967 drydocking | |
| CNE001-P019 10-U07164 | 5/24/67 | Flow Noise Measurements Using Depth Sounder | Canceled 11/16/70 Ser. 218-70 | |
| ABE032-P020 10-U06901 | 4/24/67 | Foilborne Power Train Inspection | Complete in 1967 drydocking | |
| ABE030-P021 10-U06902 | 5/4/67 | Autopilot Hydraulic System Modification | Complete in 1967 drydocking | |
| ABE037-P022 10-U06898 | 4/25/67 | Autopilot System-Proteus Pump Unloading Test | Complete in 1967 | |
| ABE041-P023 10-U06898 | 5/15/67 | Aft Strut Fences (Mfg. & Instl.) | Complete in 1967 drydocking | |
| AHT008-P024 10-U07090 | 5/24/67 | Modification of Flushing System | Complete in 1967 drydocking | |
| ABE026-P025 10-U06905 | 5/3/67 | Autopilot Modification for Foi! Tip Load Alleviation | Complete in 1967 drydocking | |
| AHT009-P026 10-U07091 | 5/24/67 | Miscellaneous Drydock Jobs | Complete in 1967 drydocking | |
| CNE004-P027 10-U07167 | 5/16/67 | Acoustic Calibration of Depth Sounder | Canceled 11/16/70 Ser. 219-70 | |

| Plan & ASDP No. | Issued or Approved | Title | Status |
|--------------------------|--------------------------|---|--|
| BSE043-P028 10-U06893 | 5/22/67 | Pre-Drydock Reference Condition Tests of Craft Performance | Complete in 1968 Documents D2-133703-17 and D2-133614-1 |
| BSE022AP029 10-U06907 | 5/23/67 | Aft Foil and Strut Load Data Analysis Being Reported with BE059-P087 | Complete |
| BSE018-P030 10-U06910 | 5/23/67 | Analysis of 1966 Rough Water Trials | Complete in 1968 Document D2-133608-1 |
| BSE017-P031 10-U06911 | 5/16/67 | Analysis of 1966 Smooth Water Trials | Complete in 1967 |
| ABE004-P032 10-U06918 | 5/22/67; Rev. 7/18/67 | Aft Foil System Instrumentation | Complete in 1967 Drydocking |
| BSE010-P033 10-U06914 | 3/29/67 | Data Review of Steering Performance | Complete in 1967 |
| BSE035-P034 10-U06900 | 5/31/67 | Aft Foil System Structural Response Study | Complete in 1968. See Document D2-133612-1 |
| CNE005-P035 10-U07168 | 6/3/67 | PCH - Depth Sounder Evaluation | Complete in 1968 trials Document D2-133703-35 |
| CNE006CP036 10-U07169 | 4/25/67 | PCH Towed System Trials - Towline Evaluation | Report due 6/1/72 Complete NUC TP 241 Ser 244-72 77772 |
| CNL001-P037 10-U07199 | 4/17/68 | PCH Gunnery Trials - MK3 MOD 4 40mm Mount (STRUCTURAL SURVEILLANCE) | Complete in 1968 Trials, Document D3-133703-31 |
| AR4001-P038 10-U07262 | 7/3/67 | Dynamic Meas. of Aft Foil Structure and Foilborne Transmission | Complete in 1967 |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|--------------------------|----------------------|--|---|
| ABE044-P039 10-U0693 | 6/9/67 | PCH Instrumentation Plan | Complete in 1967 drydocking |
| ABE029-P040 10-U06903 | 7/19/67 | Autopilot Log and Autopilot Maintenance Manual Revision | Log completed in 1967 and manual completed in 1968. See D2-133618-1 |
| ABE019-P041 10-U06903 | 6/27/67 | Foilborne Operations Manual for PCH-1 | Canceled Need superseded by PCH-1 (Mod 1) plans to incorporate a new autopilot. |
| BHR010-P042 10-U07263 | 9/5/67 Ser 82-67 | PCH Foilborne Propellers - Mod with B. F. Goodrich Inlays | Complete in 1968 trials. See Document D2-133624-1 and D2-133703-37. |
| CWA002-P043 10-U07263 | 8/28/67 | Evaluation of Helm Control at High Speeds | Canceled 11/16/70 Ser. 224-70 |
| BSE049AP044 10-U06894 | 8/25/67 | Post Drydock Verification and Smooth Water Initial Evaluation Trials | Complete Aug. 1969. See Documents D2-133631-1 and D2-133703-20. |
| CWA003-P045 10-U07263 | | Magnetic Field Measurements on PCH-1 (Classified) | Complete in 1968 trials Document D2-133703-21 |
| CNE007-P046 10-U07170 | 9/18/67 Ser 89-67 | Foilborne Simulated Night Navigation Mission | Complete in 1968 trials, Document D2-133703-28 |
| CNE008-P047 10-U07171 | 9/18/67 Ser 89-67 | Surveillance/Reconnaissance and Simulated Gunfire Mission | Complete in 1968 trials, Document D2-133703-26 |
| CNE009-P048 10-U07172 | 9/18/67 Ser 89-67 | Off Shore Patrol and Search | Complete in 1968 trials, Document D2-133703-27. |
| CNE010-P049 10-U07173 | 9/18/67 Ser 89-67 | Convert Unit Delivery Missions | Canceled 11/16/70 Ser. 220-70 |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|--------------------------|------------------------|--|--|
| CME011-P050 10-U07174 | 9/18/67 Ser 89-67 | Daylight UDT Delivery Mission | Canceled 11/16/70 Ser. 221-7C |
| CME012-P051 10-U07175 | 9/18/67 Ser 89-67 | Task Force Operation | Canceled 11/16/70 Ser. 222-7C |
| CME013-P052 10-U07176 | 9/18/67 Ser 89-67 | Endurance Mission | Canceled 11/16/70 Ser. 223-7C |
| ABE056-P053 10-U06889 | 7/14/67 | Height Sensor Calibration Fixture | Complete in 1967 Drydocking |
| BBE051AP054 10-U06891 | 9/15/67 | Speed, Power and Take-off Margin Reference | Canceled, Reinstate, Completed, Revived by Revision A 12/16/71 |
| BBE050-P055 10-U06892 | 10/4/67 | Re-evaluation of Foilborne Operating Envelope | Complete, Reported with BE079-P088 in 1968 |
| BBE020-P056 10-U06893 | 8/25/67 | On Board Wave Height Measurement Instrument | Complete in 1968, Document 10-72108 |
| BBE057-P057 10-U06894 | 10/3/67 | Control System Pre-Rough Water Adjustments and Refinements | Complete in 1967 trials, Document D2-133703-23 and D2-133628- |
| CNU001-P058 10-U07196 | 10/24/67 Ser 110-67 | Acoustic Trials at NTS, Keport | Complete in 1967 trials, Document D2-133703-22 |
| AKA004-P059 10-U07264 | 11/16/67 Ser 112-67 | Zurn Transmission Coupling Evaluation | Complete in 1968 trials, Document not published. |
| AKY011-P060 | | Salt Water System Valves, PSNS Design | Complete in 1968 drydocking |
| ABE061-P061 | 11/3/67 | Gas Turbine Drive Coupling | Complete in 1967 drydocking |
| ABE058AP062 10-U06885 | 10/13/67 | After Strut Trunk Measurements on PCH-1 | Complete in 1968, See 02-133621-1 |
| BBE057AP063 10-U06886 | 10/24/67 | Rough Water Technical Trials - Foilborne Maneuvering and Seakeeping | Complete in 1968, Document D2-133703-25 and D2-133623-1 & 2 |
| ABE063AP064 10-U06883 | 12/8/67 | Foilborne Propellers - Repair, Continuing Inspection and Documentation of Activity | Completed in 1969, Document D2-133624-1 |

| <u>Plan & ASDB No.</u> | <u>Issued or Approved</u> | <u>Title</u> | <u>Status</u> |
|----------------------------|------------------------------------|---|---|
| B8E064-P065 10-U06881 | 12/8/67 | Integrated Rough Water Trials Data Requirements | Complete in 1968. Processed data sent to NSRDC. |
| B8E065-P066 10-U06880 | 12/14/67 | Weight Updating and reporting for HIGH POINT | D2-33622-1 Mod 0 Close-out Complete |
| B8E053AP067 10-U06887 | 11/22/67 | Rough Water Speed, Power and Takeoff Margin Test Plan for HIGH POINT | Canceled superseded by MA005CP099 using torque meter. |
| ABE036-P068 10-U06899 | 4/26/67 | Data System Documentation | Completed 6-14-74 |
| CH2001-P069 10-U07197 | 3/29/68 Ser 48-68 | Torpedo Tests, Exercise Shots | Completed in 1968 trials. Documentation D2-133703-29 |
| BW1002AP070 10-U07202 | 3/5/68 | Thrust and Torque Measurements | As built records completed in 1969 |
| ASE076-P071 10-U06870 | 3/6/68 | 400 Cycle Supply System Modification | As built records completed in 1969 |
| ABE071AP072 10-U06875 | 3/5/68 | Hull Underwater Windows for Aft Strut Viewing | As built records completed in 1969 |
| ABE060BP073 10-U06884 | 3/1/68 | Pelorus Installation | As built records completed in 1969 |
| CHU002-P074 10-U07198 | 8/7/67 Ser 73-67 | Gunnery Trials, 40mm Mount | Completed in 1968 trials. Report D2-133703-31 |
| ABE077CP075 10-U06869 | Approved 6/23/69 Ser 124-69 | True Motion Display System, Repair and Calibration | As built records completed in 1969 |
| BNS001-P076 10-U07200 | 3/28/68 Ser 52-68 | Salt in Air Sampling | Completed in 1968 trials |
| BW1001-P077 10-U07201 | 10/20/67 | Seaworthiness Tests | Complete in 1968 trials Document D2-133703-25 |
| B8E074CP078 10-U06872 | 7/2/68; Rev B 7/11/68 3/1/68 | Strut Side Slip Angle Indicator Miscellaneous Mechanical Modification and Repair | As built records completed in 1969 |
| ABE0663P079 10-U06879 | | | As built records completed in 1969 |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|---------------------------|---|--|--|
| ABE067AP080 10-U068678 | 3/1/68 | Miscellaneous Autopilot Hydraulic Modification and Repair | As built records completed in 1969 |
| ABE0788P081 10-U06868 | 3/7/68 | Control System; Miscellaneous Clean-up and Modification | As built records completed in 1969 |
| BBE0738P082 10-U06873 | 3/14/68 Rev A 4/30/68 | Forward Foil System Structural Instrumentation Plan | Completed; see Document D2-133629-1 |
| CHY012-P083 | | Endurance Trip for HIGH POINT (Portland) | Canceled 11/16/70 Ser. 225-70 |
| ABE081AP084 10-U06866 | 4/5/68 | PCH Mod "0" Critical Dimension Survey | As built records completed in 1969 |
| ABE085-P085 10-U06864 | 5/3/68 | Damage Survey - Interim Repair May 1968 | Complete in 1968 Drydocking |
| ABE086AP086 10-U06862 | 5/68 | Miscellaneous Repairs on Hull, Strut and Downlock for 3 April Damage | As built records completed in 1969 |
| BBE063-P087 10-U06877 | 5/15/68 | 1967/68 After Foil and Strut Loads Data Analysis | Completed 3/6/70, Document D2-133610-1 |
| ABE088-P088 10-U06860 | 6/6/68 | Watertight TV Camera Housings | As Built records completed in 1969 |
| ABE079-P089 10-U06867 | 5/29/68 | Smooth Water Foilborne Control & Behavior Analysis - PCH-1 Sept. 1967/May 1968 | Complete in 1968, See Document D2-133628-1 |
| BBE087-P090 10-U06861 | 5/29/68 | Debris Detection for Hydrofoil Ships - Feasibility Study | Complete in 1968, See Document D2-133045-1 |
| ABE090AP091 10-U06858 | 7/16/68 Rev A 11/11/68 | 100 KW Generator and Electrical System Change | Completed in 1969 |
| AN010D8AP092 10-U07208 | Rev. A approved 1/6/70 Ser. 02-69 | Throttle Modification and Repair | Complete 1972 Overhaul 8/9/72 Ser. 281-72 |
| AN005AP093 10-U07265 | 9/9/68 | Determination of Machinery Vibration Characteristics of PCH-1 | Complete 8/9/72 Ser 281-72 |

| Plan & ASDS No. | Issued or Approved | Title | Status |
|--------------------------|--|--|---|
| AN006-P094 10-U07266 | 9/3/68 | Emergency Exit Arrangement for Machinery Space of PCH-1 | Complete in 1969 |
| ABE095-P095 10-U06854 | 8/30/68 | PCH-1 Rehabilitation of Nacelle Strain Gages M1 and N1 | As Built Records completed in 1969 |
| BW003-P096 10-U07203 | | Foilborne Dynamic Response Tests (PCH-1) | Trials completed. Report Complete TN-P-196 per Ser 378-72, 11/14/72 |
| BW006BP097 10-U07205 | 9/24/68 Ser 154-68 Rev B 3/7/69 | PCH-1 Hullborne Vibration Tests | Complete |
| BW004BP098 10-U07204 | 9/24/68 Ser 156-68 Rev B 10/22/68 Ser 184-68 | EM Speed Log; Rough Water Performance Using Towed Knot Method for Comparison | Complete |
| BW005CP099 10-U07206 | 10/30/68 Ser 191-68 Rev C 12/11/68 | Foilborne Speed and Power Tests (PCH-1) | Complete NSRDC T&E 264H-06 TN-P-12 TN-P-17 |
| BBE070AP100 10-U06876 | 8/16/68 | Forward Foil and Strut Loads Data Analysis (Series A) | Complete |
| BBE082-P101 10-U06863 | 8/15/68 | Smooth Water Hydrodynamic Trials (Series A) | Complete |
| ABF094-P102 10-U06855 | 9/17/68 | Installation of Additional Recording Channels on PCH-1 | Completed in 1968 drydocking |
| ABE089-P103 10-U06859 | 10/14/68 | 1969 Post Drydock Verification Trials | Completed in 1969 |
| AHT013AP104 10-U07093 | 10/14/68 | Installation of Auxiliary Electrical Heating System Onboard HIGH POINT (PCH-1) for Improved Habitability | Completed in 1969 |
| ABE0918P105 10-U06857 | 8/15/68 | Integrated Camera System | As Built records completed in 1969 |
| BW007AP106 10-U07207 | Approved 6/17/69, Ser 114-69 Reviewed 5/16/69 Approved 5/16/69 Ser 186-69 | Single Engine Performance | Complete TN-P-15 |

| Plan & ASDS No. | Issued or Approved | Title | Status |
|--------------------------|----------------------------------|---|--------------------------------------|
| ABE093-P107 10-U06856 | 10/25/68 | PCH-1 Data System Measurement Changes | As Built records completed in 1969 |
| ABE098-P108 10-U06851 | 10/31/68 | Test Instrumentation Center Plan | Completed in 1969 |
| BME010-P109 10-U07210 | 11/18/68 | Specific Fuel Consumption of PCH-1 | Complete |
| AHY014-P110 10-U07094 | 12/3/68 | Propulsion Plant Safety Modification PCH-1 | Completed in 1969 |
| BBE099-P111 10-U06850 | 11/11/68 | PCH-1 Foil System Coating Documentation | Complete (Superseded by NA023-P182) |
| AHY015-P112 10-U07093 | 1/2/69 | Installation and Operation of Wind Speed and Direction Aerovane Transmitter Model 120 Aboard HIGH POINT (PCH-1) | Completed in 1969 |
| CME011-P113 10-U07212 | Approved 1/21/69 Ser 15-69 | Test and Evaluation of Raytheon Model 723 D Fathometer | Completed in 1969 |
| BMD012AP114 10-U07222 | Approved 1/16/69 Ser 12-69 | Lateral Stability and Turning Characteristics (Foilborne) | Complete |
| AHY016-P115 10-U07096 | 2/1/69 | Closed Circuit TV Camera Wiring | Completed in January 1970 |
| BBE084AP116 10-U06863 | 2/9/69 | Rough Water Technical Trials (1969) | Reported in D2-133705-1 |
| AHY017BA117 10-U07097 | Approved 3/6/69 Ser 33-69 | AGEH-1 Post Delivery Inspection/Assessment Plan | Completed in 1969 |
| AHY014-P118 10-U07214 | Approved 3/10/69 | Rough Water Evaluation OE121 Fathometer | Completed |
| BME009AP119 10-U07209 | Approved 3/24/69 Ser 40-69 | Determination of the Axis of Rotation of the PCH-1 | Completed - Reported with NA003-P096 |
| CBE097-P120 10-U06852 | Approved 4/17/69 Ser 57-69 | Replenishment at Sea | Completed |

| Plan & ASDA No. | Issued or Approved | Title | Status |
|--------------------------|---|--|--------------------------------------|
| ANA007-P121 10-U07267 | Approved 4/1/69 Ser 43-69 | Study of Plastic and Glass-Reinforced Plastic Piping & Valves in PCH-1 Sea Water Systems | Completed 2/7/73 Ser 39-73 |
| AHY018-P122 10-U07098 | Approved 4/15/69 Ser 56-69 | Conversion of 5 Gal per/min. Fuel Pump to 20 Gal. per/min. Fuel Pump. | Completed in 1969 |
| AHY019-P123 10-U07099 | Approved 4/30/69 Ser 66-69 | Installation of Electric Low Pressure Air Compressor System on HIGH POINT | Completed in 1969 |
| AAA002-P124 | Approved 5/5/69 Ser 76-69 | Installation of Non-Metallic Fire Pump System on HIGH POINT | Complete |
| AAA003AP125 | Approved 5/5/69 Ser 75-69 Rev. A approved 1/6/70 Ser 3-70 | Installation of a Non-Metallic Replacement for the Number Two Sea Water Booster Pump on HIGH POINT | Completed in 1969 |
| ABE102AA126 10-U06848 | Approved 5/12/69 Ser 79-69 | Automatic Control Equipment Dockside Inspection and Test | Complete |
| BHN016-A127 10-U07216 | Approved 5/19/69 Ser 91-69 | Installation of Anemometer UM05 on AGEH-1 | Completed in 1969 |
| ABE103AA128 10-U06849 | Approved 5/27/69 Ser 93-69 | Photographic Documentation AGEH-1 As | Completed 10/17/74 Ser 364-74 |
| AHY023-P129 10-U07103 | Approved 5/27/69 Ser 95-69 | Installation of Control Air Gage in the Pilothouse of HIGH POINT | Completed in 1969 |
| ABE110-A130 10-U06843 | Approved 5/27/69 Ser 96-69 | Post Delivery Miscellaneous Repair Modification | Completed in 1969 |
| ABE111AA131 10-U06842 | Approved 5/28/69 Ser 97-69; Rev A approved 9/10/69 Ser 181-79 | AGEH-1 Instrumentation Functional Test and Calibration | Canceled (Superseded by MTR028-A186) |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|---------------------------|---|--|--|
| AHY020AA132 10-U07100 | Approved 5/28/69 Ser 98-69; Rev A approved 6/17/69 Ser 113-69 | PLAINVIEW Post Delivery Miscellaneous Repair and Modification | Complete |
| AHY025-PI133 10-U07105 | Approved 6/2/69 Ser 102-69 | Platform Deck Modifications - Fuel Tank Area (PCH-1) | Completed 1972 Overhaul; 8/9/72 Ser 280-72 |
| AHY022-PI134 10-U07102 | Approved 6/18/69 Ser 118-69 | Installation of Heated Glass in the Forward Port and Stbd Side Panes of HIGH POINT Pilothouse. | Completed in February 1970 |
| AHY008AA135 10-U07268 | Approved 6/18/69 Ser 119-69; Rev A approved 9/10/69 Ser 182-69; Rev B approved 4/28/72 Ser 165-72; Rev C approved 6/08/72 Ser 217-72 | Post Delivery Miscellaneous Hydraulic System Repair and Modification to PLAINVIEW (AGEH-1) | Completed 8/31/73 Ser. 213-73 NSRDC Ltr. 1152:CCR HF-183 1-3-73 |
| BBE107-A136 10-U06846 | Approved 6/24/69 Ser 128-69; Rev A 6/20/73 Ser 144-73 | AGEH-1 Weight Analysis and Reporting Log | Completed 6/14/74 |
| ANW015-A137 10-U07215 | Approved 6/23/69 Ser 124-69 | Machinery Instrumentation Station AGEH-1 | Completed in January 1970 |
| BIN018AA138 10-U07218 | Approved 6/23/69 Ser 125-69; Rev A approved 9/10/69 Ser 185-69 | Preliminary Characterization Trials AGEH | Complete |
| ANW013-PP139 10-U07213 | Approved 6/23/69 Ser 126-69 | PCH-1, Digital Readout of Ship Speed | Completed in February 1970 |

| Plan & ASDS No. | Issued or Approved | Title | Status |
|---------------------------|--|---|--------------------------------|
| BSEI04AA140 10-U06847 | Approved 6/23/69 Ser 127-69 | AGEH-1 Operating Characteristics - Smooth Water Hullborne and Foilborne Exercises | Complete |
| AHY021-A141 10-U07101 | Approved 7/8/69 Ser 137-69 | Post RAV Verification - AGEH-1 | Completed in 1970 |
| ABE108AA142 10-U06845 | Rev A approved 10/22/69 Ser 221-69 | Automatic Control Equipment Adjustment and Rework (AGEH-1) | Completed in February 1970 |
| AHY024-P143 10-U07104 | Approved 7/2/69 Ser 138-69 | Installation of Additional Safety Seating Onboard HIGH POINT (PCH-1) | Completed in 1968 |
| AHY033-P144 10-U07111 | Approved 7/22/69 Ser 150-69 | Conversion of Upper Sonar Trunk (Mast) Into Stowage Area for Damage Control Equipment | Completed in 1969 |
| ANA009-A145 10-U07269 | Approved 7/23/69 Ser 153-69 | Noise Treatment off AGEH-1 | Complete |
| AHY030AA146 10-U07108 | Approved 7/23/69 Ser 152-69; Rev A 10/16/70 Ser. 194-70 | Passive/Active Cathodic protection System for AGEH-1 | Cancelled 10/2/78 |
| AHY032-A147 10-U07110 | 7/23/69 | Towed Knotmeter Installation | Installation completed in 1969 |
| AIRH019-P148 10-U07219 | Approved 7/31/69 Ser 157-69 | Aft Strut-Foil Pod Contour Clean Up (PCH-1) | Completed in 1969 |
| ANIA010-A149 10-U07270 | Approved 9/3/69 Ser 171-69 | Machinery Noise Characterization of PLAINVIEW (AGEH-1) | Complete |
| AHY037-A150 10-U07113 | Approved 9/3/69 Ser 172-69 | Installation of Two Tables and PIn Chairs in Anchor Windlass Room of AGEH-1 | Complete |
| AHY027-P151 10-U07107 | Approved 9/3/69 Ser 173-69 | Safety Hand Railing on Board HIGH POINT (PCH-1) | Completed in 1969 |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|--------------------------|--|--|-------------------|
| ANV031-A152 10-007109 | Approved 9/3/69 Ser 174-69 | Radio Communication System for HYSTU Test Operations | Complete |
| ANV038-P153 10-007114 | Approved 9/3/69 Ser 170-69 | Television Presentation Via Plotthouse 1nd Display | Complete |
| BW020-P156 10-007220 | Approved 9/8/69 Ser 177-69 | Strut Clean-up Evaluation (Reference N019-P148) | Complete |
| ANV039AP155 10-007115 | Approved 9/12/69 Ser 184-69; Rev A 12/4/70 Ser 248-70 | Automatic Heading Hold on HIGH POINT (PCH-1) | Complete |
| ANV046-A156 10-007119 | Approved 9/25/69 Ser 194-69 | Relative Humidity Surveillance and Protective Coating of Void Spaces (AGEH-1) | Complete |
| ANV041-A157 10-007116 | Approved 9/25/69 Ser 195-69 | Emergency Steering Power Supply Modification (AGEH-1) | Completed in 1969 |
| ANV053-A158 10-007124 | Approved 9/29/69 Ser 200-69 | Nitrogen Charging of Hydraulic Accumulators and Compressors Aboard PLAINVIEW (AGEH-1) | Completed in 1969 |
| BW021AP159 10-007221 | Approved 10/1/69 Ser 206-69; Rev A approved 5/13/70 Ser 60-70 | Forward Foll Tip Extension Evaluation (PCH-1) | Complete |
| ANV054-A160 10-007125 | Approved 10/13/69 Ser 206-69 | Auxiliary Diesel Tests (AGEH-1) | Complete |
| ANV045-A161 10-007118 | Approved 10/13/69 Ser 205-69 | AGEH-1 Electronics Equipment Room Rearrangement | Complete |
| BW022BP162 10-007222 | Approved 10/22/69 Ser 220-69 | Characterization Trials PCH-1 | Complete |

| Plan & ASRS No. | Issued or Approved | Title | Status |
|--------------------------|---|--|---|
| AIR09-A163 10-U07120 | Approved 10/22/69 Ser 222-69 | Installation of the Portable Decontamination Unit in PLAINVIEW | Complete |
| AIR051-A164 10-U07121 | Approved 10/27/69 Ser 230-69 | Verification of the Operating Characteristics of the Foilborne Salt Water and Lube Oil System Pumps and Determination of the Minimum Foilborne Speed of AGEH-1 | Complete |
| AIR047-A165 10-U07123 | Approved 10/27/69 Ser 229-69 | AGEH-1 Fathometer Testing | Complete 3/11/72 |
| ABE109-A166 10-U06844 | Approved 10/30/69 Ser 237-69 | PLAINVIEW (AGEH-1) Automatic Control System Configuration Log | Completed 6/14/74 |
| AHY035-A167 10-U07122 | Approved 10/30/69 Ser 236-69 | Exhaust Stack Hangar Modification | Complete |
| CNE019CP168 10-U07181 | Approved 10/30/69 Ser 235-69; approved 6/25/71 Ser 187-71 | Evaluation of the Westinghouse Electric Corp. Phase-Comparison Sonar Systems and the NSRDC, Panama City Doppler Sonar System. | Complete 10/1/71 |
| ABE113-P169 10-U06841 | Approved 10/30/69 Ser 240-69 | Forward Flap Drive Shaft Modification (HIGH POINT) | Complete |
| ABE116-P170 10-U06838 | Approved 11/6/69 Ser 246-69 | 400 CPS Power Supply Modification | Complete |
| AHY056-A171 10-U07127 | Approved 11/14/69 Ser 251-69 | Modification of Aft Strut Downlock Indicator PLAINVIEW (AGEH-1) | Complete |
| AHY058-A172 10-U07129 | Approved 11/17/69 Ser 252-69 | Automatic Load Transfer Between No. 1 and No. 2 Static Converters | Complete |
| AHY055-P173 10-U07126 | Approved 12/1/69 Ser 264-69 | Photographic Documentation - PCH-1 As-Built | Closed out for Mod 0 Record is Complete |

| Plan & ASDS No. | Issued or Approved | Title | Status |
|--------------------------|--|--|---|
| ABE121AA174 10-006834 | Approved 1/5/70 Ser 276-69; deferred 4/24/70 Ser 48-70; Rev. A 12/29/71 Ser 415-71 | Integrated Motion Picture Camera and TV System (AGEH-1) | Completed 6/14/74 |
| ANT052-A175 10-00722 | Approved 1/14/70 Ser 9-70 | Procurement of Critical Spares for AGEH-1 | Complete |
| ABE125-P176 10-006830 | Approved 2/2/70 Ser 17-70 | Separate Fusing for Two Steering Amplifiers - PCH-1 | Complete |
| ANA024-P177 10-007277 | Approved 2/17/70 Ser 16-70 | Modification of Steering & Engineering Control Consoles for HIGH POINT (PCH-1) | Completed 8/9/72 Ser 283-72 |
| ABC117-A178 10-006837 | Approved 2/27/70 Ser. 18-70 | Permanent Intercom System for the Technical Support Party to the Data Acquisition Center (AGEH-1) | Complete |
| BRA027-A179 10-007227 | Approved 3/6/70 Ser 19-70 | Refurbishment of the Strain Gages on the Struts of AGEH-1 | Complete |
| BBE124-P180 10-006832 | Approved 3/9/70 Ser 21-70 | Characterization of PCH-1 While Towing an Underwater Depressor | Complete |
| BNA022-A181 10-007275 | Approved 3/17/70 Ser 26-70; Rev A 1/12/72 Ser 26-72 | PLAINVIEW (AGEH-1) Foilborne Hydraulic System, Measurement of Transient Pressure Surges | Completed 3/15/73 Ser 66-73 NSRDC Ltr. 1152:CRR HF-183 1/3/73 |
| BNA023-P182 10-007276 | Approved 3/17/70 Ser 27-70 | Continuation of Documentation & Reporting on Selection, Application and Performance of Protective Coatings on Foil System and Propellers of PCH-1 HIGH POINT. | Nare Island Report due 6/5/72 Report due 8/1/73 |
| ANT059-P183 10-007130 | Approved 3/17/70 Ser. 28-70 | Removal of Hydraulically Driven High Pressure Air Compressors and Replacement with a Single Electrically Driven High Pressure Air Compressor | Completed 3/15/73 Ser. 65-73 NSRDC Ltr. 1152:CRR HF-183 |

| Plan & ASDS No. | Issued or Approved | Title | Status |
|--------------------------|--|--|---|
| BHY026-P184 10-007106 | Approved 4/9/70 Ser 37-70 | Installation of Instrumented Shafts on PCH-1 | Completed |
| ABE126-A185 10-006829 | Approved 4/7/70 Ser 36-70 | Steering and Main Foil Incidence Hydraulic Actuator Shield Installation | Completed |
| BAN028-A186 10-007228 | Approved 4/7/70 Ser 38-70 | AGEH-1 Instrumentation Installation, Checkout and Calibration | Completed 5/3/73, 1153:FRS:JB HF-82/5605 |
| | | (a) Lear Seigler, Inc. Recording Sta. Manual (b) NAVSHIPS 0976-363-0010 through 0800. (b) Boeing Doc. #0319-60000 PCH & AGEH-1 Instrumentation Operating Procedures & Boeing Data Processing. (c) AGEH-1 Calibration Manual (d) AGEH-1 Measurand List (e) AGEH-1 Transducer Compendium (f) AGEH-1 Measurand Wiring List (g) AGEH-1 Integrated Preventive Maintenance Schedule (h) AGEH-1 Spares Provisioning Manual (i) Boeing Document #D311-60000-1 HIGH POINT (PCH-1) Compendium & Wiring Diagrams. | |
| ANA012-H187 10-007272 | Approved 4/23/70 Ser 47-70 | DENISON Spare Parts Survey | Completed |
| ABE115AA188 10-006839 | Approved 4/24/70 Ser 49-70; Rev A approved 7/13/70 Ser 116-70 | Critical Machinery & Auxiliary System Instrumentation Station in Space 2-48-0-Q on AGEH-1. | Complete |
| ABE142-A189 10-006816 | Approved 5/4/70 Ser 53-70 | Special Test Equipment - AGEH-1 ACS | Complete |
| ABE135-P190 10-006821 | Approved 5/13/70 Ser. 59-70 | Retraction Centering for Steerable Propeller & Foilborne Rudder; Modification to | Completed |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|---------------------------|---|---|--|
| ANW026A-A191 10-U07226 | Approved 5/15/70 Ser 66-70; Rev. A Approved 6/5/70 Ser 74-70 | AGEH-1 Data Handling Plan: Guidelines for Removal of Defective Hull Plating and Chemically Cleaning and Coating of Voids on HIGH POINT | Completed 4/7/72 Ser 134-72 Document 0319-60000 |
| ABE145-A192 10-U06813 | Approved 5/19/70 Ser 68-70 | AGEH-1 Main Foil Strain Gage Installation | Completed |
| ANT044-P193 10-U07117 | Approved 5/19/70 Ser 69-70 | AGEH-1 Automatic Control System Improvements Related to Craft Behavior | Completed 10/9/74 Ser. 388-74 July 1974 RAY |
| ABE143-A194 10-U06815 | Approved 5/21/70 Ser. 70-70 | Machinery Room Neon Fire Extinguishing System Installation (PCH-1) | Completed |
| ABE140-P195 10-U06816 | Approved 5/25/70 Ser 75-70 | AGEH-1 Automatic Control Equipment Modifications | Completed |
| ABE127-A196 10-U06828 | Approved 5/28/70 Ser. 76-70 | AGEH-1 Structural Inspection | Completed 6/14/74 |
| BBE129-A197 10-U06827 | Approved 6/4/70 Ser. 82-70 | Installation of Spray Shields on Main Struts | Complete |
| ANW024-A198 10-U07224 | Approved 5/5/70 Ser 85-70 | Fabrication of Propellers by the Investment Casting Process | Complete |
| ANT060-P199 10-U07131 | Approved 6/23/70 Ser 103-70 | Use of Diesel Fuel (Type II) Vice JP-5 Fuel Aboard AGEH-1 | Completed 6/14/74 Ser 236-74 |
| ANT057-A200 10-U07128 | Approved 7/2/70 Ser 108-70 | Hindsight Washer Modification | Complete |
| ANT062-A201 10-U07133 | Approved 7/22/70 Ser 124-70 | Speed and Powering Tests with New Torque and Thrust Meter | Completed 9/27/72 Ser 337-72 |
| BNW029-P202 10-U07229 | Approved 7/22/70 Ser 123-70; Revised 11/23/70 Ser 232-70 | | |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|--------------------------|---|---|---|
| BEE061-A203 10-U07132 | Approved 9/17/70 Ser. 173-70 | Noise Level Analysis Within PLAINVIEW'S Displacement Engine Room | Cancelled 7/7/71 Ser. 198-71 Superseded by HF074-A242 |
| BEE151AA204 10-U06608 | Approved 10/14/70 Ser. 185-70; Rev A approved 12/22/71 Ser. 401-71 | AGEH-1 Foil/Strut Alignment Survey | Completed 6/14/74 Ser 236-74 |
| BEE130-A205 10-U06826 | Approved 10/14/70 Ser. 186-70 | Standard Post RAV Checkout Dockside and Hullborne | Completed 5/4/73 Ser. 112-73 NSRDC Ltr. 1152:CR HF-183 1/3/73 |
| BEE149-A206 10-U06809 | Approved 10/29/70 Ser. 200-70 | AGEH-1 Foilborne Accessory Drive Gearbox and Hydraulic Pump Modifications | Completed 6/14/74 Ser 236-74 |
| BEE114AA207 10-U06840 | Approved 11/9/70 Ser. 208-70 | Install Fuel Tank in Void 3-23-01-V and 3-36-0-V on AGEH-1 | Completed |
| CHE015-P208 10-U07178 | Approved 11/13/70 Ser. 215-70 | Radar Cross-Section Patterns PCH-1 | Completed |
| BEE156-A209 10-U06926 | Approved 11/13/70 Ser. 216-70 | AGEH-1 Operational Fuel Management Grid | Completed |
| CNE014-P210 10-U07177 | Approved 11/17/70 Ser. 227-70 | Magnetic Signal PCH-1 | Completed |
| BEE131-A211 10-U06825 | Approved 11/17/70 Ser. 228-70 | Standard Post-RAV Foilborne Trials (AGEH) | Completed 5/4/73 Ser. 111-73 NSRDC Letter 1152:CR HF-183 1/3/73 |
| CHE068-P212 10-U07139 | Approved 12/30/70 Ser. 268-70 | Standard Demonstration Plan for HIGH POINT (PCH-1) | Completed |
| CHE018AP213 10-U07180 | Approved 11/23/70 Ser. 233-70 | Infrared Characteristics - PCH-1 | Complete |
| CHE023-P214 10-U07185 | Approved 12/17/70 Ser. 252-70 | PCH-1/Parafoil Compatibility Trial | Completed 8/21/72 |

| Plan & ASDS No. | Issued or Approved | Title | Status |
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| CNE024AP215 20-007186 | Approved 12/17/70 Ser. 253-70; Rev. A approved 1/4/71 Ser. 1-71 | PCH-1 Collision Avoidance Trials | Completed 9/21/72 Ser. 323-72 |
| ANA027-P216 20-007280 | Approved 12/17/70 Ser. 254-70 | Vacuum Distillation Removal of Water & Contaminants from Lubrication Oils | Completed 10/18/72 Ser. 354-72 |
| BBE160-P217 20-006930 | Approved 12/30/70 Ser. 263-70 | PCH-1 1971 Rough Water Trials | Complete 11/14/72 Ser. 381-72 Boeing Ltr 2-1506-1000-637 under task 72-034P per O'Reilly 1153:WJU/HF-151 25 Oct 1972 Completed 6/13/73 Ser. 136-73 |
| ABE162-P218 20-006932 | Approved 12/30/70 Ser. 262-70 | PCH-1 Mission Endurance & Reliability Evaluation | "Final Report on Hydrofoil Special Trials Unit Plan BE162-P218 PCH-1; Mission Endurance & Reliability," Cover letter Ser. 11-73 5/15/73. |
| CBE164-P219 20-006934 | Approved 12/30/70 Ser. 265-70 | Transit - Human Factors (San Diego Transit) | Completed 5/17/74 - Ser. 181-74 Report 27-551, "Human Factors Evaluation of a Hydrofoil During Extended Transit & Exercise Operations" by Edimondo, 10/73 |
| CBE165-P220 20-006935 | Approved 12/30/70 Ser. 254-70 | Helicopter Medical Evacuation Trial Plan | Complete |
| CBE167-P221 20-006937 | Approved 12/30/70 Ser. 261-70 | PCH-1 Remote Operation Evaluation | Completed 6/11/73 Ser. 135-73 "Final Report on RRSIU Plan BE167P221-PCH-1; Remote Operations Evaluation Plan" Cover Ltr. Ser. 10-73 5/14/73. |
| CBE168-P222 20-006938 | Approved 12/30/70 Ser. 259-70 | PCH-1 Navigation Evaluation Plan | Complete |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|--------------------------|--------------------------------------|---|--|
| CNE022AP223 10-U07184 | Approved 12/30/70 Ser. 260-70 | PCH-1 Comparative Seakeeping Trials | Complete |
| CBE166-P224 10-U06936 | Approved 12/30/70 Ser. 266-70 | PCH-1 Search and Rescue Doctrine/ Procedures | Canceled per HHSSTU Letter Ser. 96-71 4/27/71 |
| CNE025-P225 10-U07187 | Approved 1/20/71 | IUM/Parafoil Operation | Completed (NE023-P214 included) Ser. 245-72 7/1/72 |
| CHE026-P226 10-U07188 | Approved 2/3/71 Ser. 27-71 | PCH-1 COMPTUEX 1-71 Trials | Completed 2/8/73 Ser. 41-73 |
| BNE030AA227 10-U07230 | Approved 11/22/71 Rev. Ser 368-71 | AGEH-1 Calm Water Foil Load Characteristics (Part A) | Cancelled 10/2/78 |
| CNE027-P228 10-U07184 | Approved 2/16/71 Ser. 39-71 | PCH-1 Replenishment at Sea | Completed 2/8/73 Ser. 42-73 |
| ABE134-P229 10-U06822 | Approved 2/18/71 Ser. 41-71 | Tactical Display System Exercise PCH-1 | Complete |
| ANE028-P230 10-U08728 | | PCH-1 Exercise ADMIXTURE Trials (U) | Completed 2/8/73 Ser. 43-73 |
| BNW031-A231 10-U07231 | 2/26/71 | AGEH-1 Preliminary Vibration Trial (Foilborne) | Completed 11/5/74 Ser. 384-74 NSRDC Report SAD-79E-1966 April 1974 |
| BNW032-A232 | | Pending approval - plan number not issued | Cancelled 5/18/72 Ser. 192-72 |
| ABE170AA233 10-U06939 | Approved 5/7/71 Ser. 102-71 | AGEH-1 Calibration of Single Idler Gearbox Torque Indicating Devices | Complete Ser 236-74 6/14/74 2-1506-1000-314 6/1/71 and 2-1524-1000-841 1/30/73 |
| ABE148-A234 10-U06810 | Approved 5/7/71 Ser. 103-71 | AGEH-1 Hydraulic System Filter Modifications | Cancelled 10/2/78 |

| <u>Plan & ASDB No.</u> | <u>Issued or Approved</u> | <u>Title</u> | <u>Status</u> |
|--------------------------------|--|---|---|
| ABE176-P235 10-U06944 | Approved 7/7/71 Ser. 199-71 | PCH-1 Fueling VERTREP with CH-46 | Complete |
| ABE177-T236 10-U06945 | Approved 7/8/71 Ser. 202-71 | TUCUMCARI (PGH-2) POIC Familiarization Briefing in Ship Arrangement Operation and Logistics Support | Complete |
| AHY071-P237 10-U07141 | Approved 6/30/71 Ser. 192-71 | Electric Starter for Hydraulic Solar Gas Turbine, HIGH POINT (PCH-1) | Completed 5/14/74 Ser. 161-74 No official report issued. |
| AHY072-A238 10-U07142 | Approved 7/8/71 Ser. 203-71 | AGEH-1 Main Power Transmission System Modification | Completed 6/14/74 |
| BIN033-P239 10-U07233 | Approved 7/19/71 Ser 215-71 | Determination of PCH-1 Hullborne Seakeeping Characteristics | Completed TN-P-19 |
| AHY073-A240 10-U07143 | Approved 7/19/71 Ser 216-71 | PLAINVIEW AGEH-1 Electric Power Plant | Completed 6/14/74 236-71 |
| BSE132-A241 10-U06824 | Approved 8/2/71 Rev. A 1/18/72 Ser 29-72 | AGEH-1 Smooth Water Foilborne Characteristics - Phase II (AGEH-1) | Completed 6/14/74 |
| AHY074-A242 10-U07144 | Approved 8/13/71 Ser 245-71 | PLAINVIEW (AGEH-1) Airborne Noise Level Analysis | Completed 10/13/72 Ser 352-72 |
| ABE178AA243 10-U06946 | Approved 8/24/71 Ser 257-71 | AGEH-1 Hydraulic System Integrity Inspection and Oil Contaminated Monitoring | Canceled 10/9/74 Ser. 359-74 |
| ABE155-A244 10-U06925 | Approved 8/31/71 | INSTALLATION OF Wave Height Measuring Instrumentation on AGEH-1 PLAINVIEW | Canceled 10/9/74 Ser. 360-74 |
| ABE154-A245 10-U06924 | Approved 9/2/71 Ser 278-71 | AGEH-1 Installation of Draft Gages | Canceled 10/18/74 Ser. 367-74 |

| Plan & ASDS No. | Issued or Approved | Title | Status |
|--------------------------|--|---|---|
| ABE174-A246 10-U06942 | Approved 9/2/71 Ser. 279-71 | AGEH-1 Bow Thruster Design & Installation | Cancelled. Lack of funds. |
| ANA030-A247 10-U07282 | Approved 9/20/71 Ser. 297-71 | Inspection of Bevel Gears PLAINVIEW (AGEH-1) | Completed 6/14/74 Ser. 236-74 TN-A-17, 2-1524-1000-1349 10/23/74 |
| ABE178-A248 10-U06820 | Approved 10/1/71 Ser. 320-71 | Hull Impact Characteristics - AGEH-1 | Completed 11/5/74 Ser. 386-74 AGEH-1 Technical Note TN-A-17 |
| ABE179-A249 10-U06947 | Approved 11/2/71 | AGEH-1 Main Foil Incidence Locking Mechanism for Strut Extension and Retraction | Cancelled 10/9/74 Ser. 361-74 |
| ABE175-P250 10-U06943 | Approved 11/17/71 Ser. 362-71 | PCH-1 Radar/Navigation System Modifications and Documentation Updating | Cancelled; superseded by BE189-P259 2/11/72 Ser 60-72 |
| ANA020-A251 10-U07274 | Approved 11/22/71 Ser. 370-71 | PLAINVIEW AGEH-1 Improved Fire Fighting System | Completed 6/14/74 Ser 236-74 |
| CNW034-A252 10-U07234 | Approved 11/22/71 Ser 371-71 | PLAINVIEW/Torpedo Compatibility Evaluation Phase I | Completed 8/21/72 Ser 325-72 |
| AHY069-A253 10-U07140 | Approved 11/24/71 Ser. 375-71 | Ship Service Switchboard Modification for Split Plan Operation - PLAINVIEW (AGEH-1) | Completed 6/14/74 Ser 236-74 |
| BWV037AA254 10-U07237 | Approved 11/30/71 Ser 381-71 | PLAINVIEW (AGEH-1) Hullborne Rough Water Motion Characteristics | Ltr 2-1524-1000-98E, 6/8/73 notes trials 25% completed and remainder not worth pursuing. Cancelled 10/27/88. |
| CNW035-A255 10-U07235 | Approved 12/3/71 Ser 384-71; Rev A Approved 6/8/72 Ser 215-72 | PLAINVIEW (AGEH-1) Magnetic/Acoustic Signatures | Complete NSWC, White Oak, report NOLTR 72-52, "Magnetic Signatures Analysis of the Hydrofoil AGEH-1 (U)" 2/11/72, Conf. report. Acoustic part of trials Cancelled. |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|---------------------------|----------------------------------|--|---|
| BBE181-A256 10-U06939 | Approved 12/16/71 Ser 394-71 | Dynamic Characterization Readiness, AGEH-1 | Completed 5/15/74 Ser. 164-74 Tech Note TN-A-72, Trials Report on Dynamic Characterization Readiness" 2-1524-1000-1005 6/22/74. |
| ABE183-A257 10-U06950 | Approved 12/27/71 Ser. 413-71 | AGEH Automatic Control System Emergency Battery Installation. | Complete |
| ABE186-AA258 10-U06953 | Approved 12/27/71 Ser. 414-71 | AGEH-1 Radar Display System Improvement | Complete |
| ABE189-P259 10-U06956 | Approved 2/11/72 SER. 59-72 | PCH-1 Radar/Navigation System Overhaul and Digital Navigation Computer Installation | Complete |
| ANW036AA260 10-U07236 | Approved 3/31/72 Ser. 125-72 | Pressure Measurements - AGEH-1 | Completed 6/8/74 SER. 236-74 Secret Final Report SER. 190-73. |
| ABE185-P261 10-U06952 | Approved 3/22/72 Ser. 109-72 | Revised PCH-1 Data Systems Documentation | Completed 1/10/73 Ser. 10-73 |
| CHY076-A262 10-U07146 | Approved 3/24/72 Ser. 114-72 | DE735 Fathometer and 3-D Pinger Installation | Completed 8/31/73 Ser. 214-73 NSRDC Letter 1152:CRR HF-183 1-3/73 |
| ABE191-P263 10-U06958 | Approved 3/29/72 Ser. 119-72 | Replacement of Speed Indicator/Transmitter on PCH-1 | Completed 8/31/73 Ser. 215-73 NSRDC Ltr. 1152:CRR HF-183 1-3-73 |
| BBE188-A264 10-U06955 | Approved 4/28/72 Ser. 166-72 | AGEH-1 Hullborne Outdrive and Steering Modifications | Canceled |
| BBE187-A265 10-U06954 | Approved 5/18/72 Ser. 190-72 | AGEH-1 Forward Foil Incidence Linkage Compliance Measurement | Canceled 6/14/74 Ser 236-74 |
| AHY075-A266 10-U07145 | Approved 6/30/72 Ser 216-72 | PLAINVIEW (AGEH-1) Main Strut Rewiring and Strut Foil Strain Gaging | Completed 3/24/75 Ser. 95-75 NSRDC Advanced Hydrofoil Program Procedure for Trial Planning, Approving, and Reporting 9/3/74. |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|--------------------------|---|---|--|
| CNW039AA267 10-007238 | Approved 6/8/72 Ser 214-72 | Investigation of Techniques to Measure Radiated Noise Underwater Noise of Hydrofoils Using PLAINVIEW (AGEH-1) | Complete 5/16/74 Ser. 167-74 Classified Report from Bolt Beranek and Newman Inc., "Underwater Radiated Noise Signature of Hydro- foil PLAINVIEW (AGEH-1)" Report No. 2504 March 1973. |
| AHY080-P268 10-007150 | Approved 6/30/72 Ser 238-72 | Design and Installation of Closed Circuit TV Monitoring System for HIGH POINT (PCH-1) | Complete 6/14/74 Ser. 172-74 5/16/74 - Letter 2-1524-1000- 1207 March 1974. |
| AHY082-A269 10-007152 | Approved 7/21/72 Ser 255-72 | Forced Ventilation of Foulburne Propellers on PLAINVIEW (AGEH-1) | Complete HYSTU Ltr 1154:SEN.v1d 10/30/72 |
| AHY077-A270 10-007147 | Approved 7/14/72 Ser 252-72 | Replacement of Speed Sensing Indicator System on PLAINVIEW (AGEH-1) | Completed 6/14/74 Ser 236-74 |
| ABE203-P271 10-006965 | Approved 8/9/72 Ser 278-72 | Additional Tasks for PCH-1 Digital Navigation Computer | Complete |
| CNW040AA272 10-007239 | Approved 10/3/72 Ser 341-72 | Sea Sparrow/Hydrofoil Compatibility Evaluation Aboard PLAINVIEW (AGEH-1) | Completed 11/5/74 Ser 387-74 NSMSES, Port Hueneue Report TR276 6/1/73 |
| BBE152BA273 10-006922 | Approved 8/23/72 Ser 288-72 Rev. 10/10/72 Ser 357-72 | Pre-Rough Water Readiness Trial - PLAINVIEW (AGEH-1) | Completed 5/16/74 Ser 173-74 Letter 2-1524-1000-1190 3/5/74 (Phase V) AGEH-1 Rough Water Speed-Power Data" |
| AHY078-A274 10-007148 | Approved 8/23/72 Ser 289-72 | Design and Installation of Permanent Strut Spray Fences on PLAINVIEW (AGEH-1) | Completed 6/14/74 Ser 236-74 |
| AHY085-A275 10-007154 | Approved 8/23/72 Ser 290-72 | Smoke Abatement for PLAINVIEW (AGEH-1) LM 1500 Gas Turbine Engines | Completed 6/14/74 Ser 236-74 |
| AHY079AA276 10-007149 | Approved 8/21/72 Ser 319-72 | Design, Fabrication and Installation of Lengthened/Strengthened Tail Strut on PLAINVIEW (AGEH-1) | Completed 6/14/74 Ser 236-74 |

| <u>Plan & ASDB No.</u> | <u>Issued or Approved</u> | <u>Title</u> | <u>Status</u> |
|----------------------------|---------------------------------|--|---|
| BWHD041-H277 10-U07240 | Approved 10/3/72 Ser 342-72 | Definition and Demonstration of Interface Between Hydrofoil Digital Autopilot (HUDAP) and PCH-1 and AGEH-1 | Canceled 11/6/74 Ser. 378-74 |
| AHY081-A278 10-U07151 | Approved 10/3/72 Ser 340-72 | Design, Fabrication and Installation of PLAINVIEW (AGEH-1) Hydraulic System | Canceled 10/18/74 - Ser. 368-74 |
| B8E199AA279 10-U06961 | Approved 11/2/72 Ser 372-72 | AGEH-1 Phase 1 Rough Water Trials | Completed 5/15/74 Ser 168-74 Tech Note TN-A-16, "Results of Rough Water Trials (Ph. 1)" 2-1524-1000-1182 2-26-74. |
| AHY088-H280 10-U07157 | Approved 10/25/72 Ser 363-72 | Electro-Magnetic Log Calibration with Doppler Radar | Completed 6/14/74 Ser 236-74 |
| AHY086AA281 10-U07155 | Approved 11/1/72 Ser 365-72 | Waste Destruction System on Hydrofoils | Revised 2/14/74. Ser 58-74. Cancelled 10/2/78. |
| ABCBE202-A282 10-U06964 | Approved 11/17/72 Ser 388-72 | PLAINVIEW (AGEH-1) Integrated Trials Program | Canceled 6/14/74 Ser 236-74 |
| BWHD044-H283 10-U07242 | Approved 12/27/72 Ser 412-72 | Evaluation of Height Sensors in Sea Sparrow Missile Environment | Complete. Boeing 2-1524-1000-949 |
| ABE208-P284 10-U06968 | Approved 1/18/73 Ser 20-73 | PCH-1 400 Hz Converter Installation Modification | Completed 6/14/74 Ser 236-74 |
| B8E206-A285 10-U06967 | Approved 1/31/73 Ser 26-73 | 51x-Degree-of-Freedom Digital Simulation of the Foilborne AGEH-1 | Completed 5/15/74 - Ser. 163-74 Document D319-515(0), "Equations for & Results from the Digital Simulation of the Foilborne AGEH-1," 1/22/74. |
| B8E133AA286 10-U06823 | Approved 2/26/73 Ser 49-73 | PLAINVIEW Foilborne Operational and Emergency Trial Procedures | Completed 5/4/73 Ser 110-73 NSRDC Letter 1152:CCR HF-183 1-3-73 TN-A-9 Transmitted by Ltr 2-1524-1000-1248, 4/29/74 |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|--------------------------|---|---|---|
| BBE193-P287 1G-U06960 | Approved 3/13/73 Ser 59-73 | PCH-1 Std. Post "Layup" Docksde, Hullborne and Foilborne Checkout | Completed 6/14/74 Ser 236-74 |
| AHY087-A268 1G-U07156 | Approved 4/2/73 Ser 75-73 | Flap Control System for PLAINVIEW (AGEH-1) | Completed 6/14/74 Ser 236-74 |
| BNN046-P289 1G-U07244 | Approved 4/2/73 Ser 77-73 | Mod 1 Ventilated Propeller Tests | Cancelled. See Plan No. BNN050BP297 |
| BNN042BP290 1G-U07241 | Approved 4/6/73 Ser 80-73 | PCH-1 Mod 1 Smooth Water Characterization | Complete Per Ltr 2-1524-1000-1223 1000-1248 4/29/74. Replaced with MVTU Op Proc 3960.2 per Ser 134-76 (7/12/76) |
| ABE212AP291 1G-U06971 | Approved 4/11/73 Ser 87-73 | Weight and Moment Updating & Recording Procedures - PCH-1 Mod 1 | Closed out 10/8/74 |
| ABE211-A292 1G-U06970 | Approved 4/23/73 Ser 96-73 | AGEH-1 Instrumentation System Air Conditioner Modifications | Completed 6/14/74 Ser 236-74 |
| ABE153BA293 1G-U06923 | Approved 5/18/73 Ser 118-73 | AGEH-1 Automatic Control System Modifications | Cancelled |
| BNW049-P294 1G-U07245 | Approved 6/4/73 Ser 131-73 | PCH-1 Mod 1 Calm Water Structural Tests | Completed 11/22/74 Ser. 394-74 Reports to be made in Final Report |
| ABE2134A295 1G-U06972 | Approved 6/11/73 Ser 133-73 | AGEH-1 Salt Water Machinery Circulating & Cooling System Overhaul & Modification | Completed 6/14/74 Ser 236-74 |
| ABE209BA296 1G-U06969 | Approved 6/8/73 Rev A approved Rev B 11/12/74 | AGEH-1 Standard Post "Layup" Docksde Hullborne & Foilborne Checkout | Cancelled, as noted in Ser Ser 238-75 10/15/75. In-std. in operating procedure #711.1 |
| BNN050BP297 1G-U07246 | Approved 6/20/73 Ser 143-73; Rev A 12/4/74; Rev B 3/3/75 | Feasibility of PCH-1 Mod 1 Propeller Ventilation | Complete. DTNSRDC report SPD 264-11 by Hecker to be released Nov. 1978 |

| Plan & ASTB No. | Issued or Approved | Title | Status |
|---------------------------------------|--|---|--|
| ABE214AA298 10-U06973 | Approved 6/20/73 Ser 145-73 | AGEH-1 Potable Water System Overhaul and Modifications | Completed 6/16/74 Ser 236-74 |
| CME030AP299 10-C01226 | | HIGH POINT - EA-38/EC-121 ASMD Trials Confid R/S #C22-73 #C63-73 | Canceled 10/9/74 Ser. 357-74 |
| CME029-F300 10-U07191 10-C01227 | 7/17/73 Ser.166-73 | HIGH POINT DD/OE PENAO Trials Confidential | Completed 4/21/75, Ser: 114-75 Classified Report TM 2856, 11/20/74. "EW Penetration Aids In-Surface Warfare - A report of EW equipment trials and demonstrations conducted on board USS HIGH POINT (PCH-1) during July-August 1973 (U)" |
| AMA034AP301 10-U07286 | Approved 8/21/73 Ser 203-73 | Machinery and Airborne Noise Characterization of PCH-1, Mod 1 | Complete - |
| BKHO51AP302 10-U07247 | Approved 8/17/73 Rev. A approved 11/19/73 Ser. 281-73 | HARPOON Height Sensor Compatibility Evaluation | Complete. Boeing report 2-1524- 1000-1192 (ASDB # 10-U10029). Some results also in report Soc AHY104-H341. |
| AHY051-4303 10-U07159 | Approved 9/20/73 Ser 222-73 | Coating System Studies for the Corrosion Protection of HY130 Steel | Complete. DTNSRDC Memo 75-085, J. Kelley 6/75 (10-U06617) |

| Plan & ASOS No. | Issued or Approved | Title | Status |
|--------------------------|---|--|--|
| ABE2158P304 10-U06974 | Approved 10/1/73 Ser 236-73 | PCH-1 ACS Configuration Log | Revised plan approved 9/24/73 Ser. 236-73 - Active |
| CMK045-P305 10-U07243 | Approved 11/9/73 Ser 279-73 | HARPOON Canister Launcher Evaluation & Interface Investigation Aboard HIGH POINT (PCH-1) | Completed 11/11/74 - Ser 386-74 - HIGH POINT letter 13010 Ser 7-74 of 1/30/74, HARPOON Narrative Report, NSWSES Report TR 299 Pay 1974, D/S 605 Phase IV Tech. Evaluation Canister HARPOON Weapon System, McDonnell-Douglas Report MCD 561-E451-1190 of 6/19/74, Boeing Letter report of Ship Behavior and Structural Effects 2-1524-1000-1190 of 3/8/74. |
| CMK055P306 10-U07250 | Approved 11/28/73 Rev. 2/6/74 Ser 52-74; Rev. 6/3/74 Ser. 115-74 | Evaluation of Hydrofoil Digital Autopilot (HUDAP) on PCH-1 Mod 1. | Completed 11/11/74, Ser. 387-74 Charles Stark Draper Lab Report R817 of May 1974. |
| ABE192-P307 10-U06959 | Approved 11/29/73 Ser 292-73 | PCH-1 Mod 1 Digital Navigation System Evaluation | Completed 11/5/74 - Ser 385-74 - Letter Report 2-1524-1000-1319 dated 9/24/74 |
| CMK056-P308 10-U07251 | Approved 12/10/73 Ser 295-73 | SMA 3RM20 Radar Evaluation Aboard HIGH POINT in Support of PHM Program | Complete. DTNSRDC TR-500-115-06, March 1975 |
| CMK058-P309 10-U07252 | Approved 1/7/74 Ser. 19-74 | HIGH POINT (PCH-1) Multiple Influence Measurements | Complete. |
| CMK0548P310 10-U07249 | Approved 1/17/74 Ser. 36-74 Rev. 1/22/74 Ser. 38-74 | Rough Water Trials PCH-1 MOD 1 Rev. B | Completed 4/22/75 - Trials Plan ANW067-P331 Ser. 115-75 |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|---------------------------|--|---|---|
| BSE159-A311 10-U06929 | 2/3/72 | AGEH-1 Hullborne Characteristics | Complete 2/26/74 - Ser 78-74; Boeing letter 2-1524-1000-920 3/29/73 |
| CNA052-P312 10-U07248 | 3/21/74 | Low Light Level Television Trials Aboard the HIGH POINT | Cancelled 10/6/75 Trials Bd. Mtg. Results of trials in 1154. IAE:rid. Ser 191-74. 5/22/74 |
| CNA059-P313 10-U07253 | Approved 5/1/74 Ser. 135-74 | PCH-1 Mod 1 Underwater Radiated Noise Measurement | Completed 4/21/75. Ser. 113-76. Classified report TN-221, 12/15/74. Hydrofoil HIGH POINT (PCH-1) Radiated Noise Signature and Tactical Considerations (U). |
| CHY095-P314 10-C-00716 | 5/28/74 Approved 6/18/74 Ser. 235-74 | Advanced Prototyping Program Test Plan for Small Craft Fire Control System (U) Confidential | Completed. NSR (Ballance, Vol Conf, report check). versatile Electro Optical System Evaluation Summary. H Jan '75, and TN 1155, 11/76, and 12/491 (Conf. report code 107). 5/76. |
| ANH094-P315 10-U07162 | Approved 7/9/74 Ser. 261-74 | Advanced Craft Flight Recorder System HIGH POINT (PCH-1) | Complete 3/24/75 - Ser 95-75 - MSROC/HYSIU. "Technical Memoranda (Final Report) Advanced Craft Flight Recorder System HIGH POINT (PCH-1) January 1975 by James W. Mason" Letter Ser 19-75 2/5/75. |
| CHY089-H316 10-U07158 | Approved 7/9/74 Ser 262-74 | Underway Replenishment Station Keeping with Electronic Devices | Complete. |
| BME060-P317 10-U07254 | Approved 7/17/74 Ser 271-74; Rev.A 12/4/4 on Hullborne Motion Rev: 8 1/2/75 | HUDMAP Tests - Effect of Varying Gains | Cancelled 10/2/78 |
| ANE034-P318 10-U07194 | Approved 7/18/74 Ser 272-74 | FLIR Installation Aboard the Hydrofoil HIGH POINT | Complete. |
| ANE036-P319 10-U07195 | Approved 7/18/74 Ser 273-74 | HIGH POINT EW Trials. Instl. Plan | Complete. |
| CME031-P320 10-C-01223 | 7/25/74 | Triple S/HIGH POINT RBOC Trials Conf. | Cancelled 10/9/74 - Ser. 351-74 |

| Plan & ASDB No. | Issued or Approved | Title | Status |
|--------------------------|--|---|--|
| CNE032-P321 10-C01224 | 7/25/74 | HARPOON (Mod 2) Seeker/HIGH POINT RBOC Trials (U) Confidential | RBOC portion complete. Further trials cancelled 10/2/78. Report expense not warranted. |
| CNE033-P322 10-C01225 | 7/25/74 | HIGH POINT RBOC/ASMD Trials (EC-121/F-4 & A-4 Aircraft) (U) Confidential | Cancelled. NYSTU ltr. 1154.1: Mkt:shy, Ser 351-74 10/8/74 |
| BNA051-P323 10-U07255 | Issued 5/30/74 Approved 7/22/74 Ser 279-74 | PCH/PGH/Other Craft Comparative Seakeeping | Cancelled - Ser. 397-74 11/29/74 |
| BNA062-P324 10-U07256 | Approved 7/26/74 Ser 285-74 | Movies of PCH-1 MOD 1 in Structural Maneuvers | Cancelled - Ser. 393-74 11/22/74 |
| BHY093-H325 10-U07161 | Approved 8/23/74 Ser 309-74 | Sundstrand AHY-6 Radar Altimeter - Height Sensor Evaluation on Hydrofoils | Complete. NYSTU memo 1154.4 VIII: vba, 2/5/76 "Eval. of the Radar Height Sensor." Results incl. in ANR04-H341 rept. and NELC-056-7/N 2960, 5/19/75 |
| BNA035AP326 10-U0078 | Approved 9/6/74 Ser 327-74 | Test Plan Evaluation of Exterior Strut/ Foils Coatings on HIGH POINT (PCH-1) | Active - Rev. "A" 2/28/75 |
| ANW063-P327 10-U07257 | Approved 9/6/74 Ser 328-74 | PCH-1 MOD 1 Structural Instrumentation | Complete: Ser 157-75 6/15/75 and 225-75 9/26/75 |
| BNA064-P328 10-U07258 | Approved 9/16/74 Ser 335-74: Rev A 12/4/74; Rev B 1/16/75 | Evaluation of September 1974 Hydrofoil Digital Autopilot (HUDAP) Configuration on PCH-1 MOD 1 | Complete. No report; check out only. |
| ANW065-P329 10-U07259 | Approved 12/4/74 | PCH-1 Mod 1 Flap Effectiveness - Static, Dynamic, During Maneuvers and Following Broaching | Cancelled 10/2/78 |
| ANW066-P330 10-U07260 | Approved 12/4/74 | Base Line PCH MOD 1 Smooth Water Speed and Powering | Complete. Boeing ltr. 2-1524-1000-1537, 8/1/75 |
| ANW067-P331 10-U07261 | 12/9/74 | PCH-1 1975 Rough Water Trials | Complete. Report due OTS/SDC Code 1151 and Code 1730.3. |

| Plan & ASDB No. | Issued | Title | Status |
|--------------------------|----------|---|--|
| B9E223-P332 10-U09849 | 3/31/75 | Technical Evaluation of PCH-1 During USCG Operation | Complete, Ser 157-75 6/16/75 and 225-75 9/26/75. |
| BHY097-P333 10-U09850 | 7/29/75 | Evaluation of TANCAV System in Conjunction with HIGH POINT (PCH-1) Navigation Computer | Trial Complete. Lit sc '0, ser 63-75. 1st ser 47-76, 10/76 (ASDB #s 10-U07478 & 10-U0812, respectively). |
| AMW076-P334 10-U09837 | 1/15/76 | PCH-1 Forward Foul Cavitation | Active, Trial Complete, Report Due |
| BHY098-P335 10-U09832 | 12/26/75 | Rockwell International Anti-Clutter Radar System (ACR) Evaluation | Cancelled 10/21/78 |
| AMW077-P336 10-U09833 | '7/1/76 | High Speed Velocity Log Intermediate Speed Feasibility Demonstration | Complete, NADC Report NADC-78114-40 6/15/78. |
| ANAG42-A337 10-U100,4 | 6/18/76 | Seawater reverse osmosis desalination system, test of. | Cancelled. Refer to Ser 159-76. 9/13/76 |
| AHY101-P338 10-U10075 | 11/11/76 | Effect of Coating Roughness on Performance | Deferred |
| AHY102-P339 | ? | PCH-1 Ship Standardization and Tactical Trials | Cancelled 10/21/78. |
| ANAO44-A340 | 1/26/77 | Vibration Monitoring Systems for Large Hydrofoils | Complete |
| 10-U10076 | | | DTNSRDC Code 1154.4 to prepare report with data from BNW051AP302 and BHY093-K325 |
| AHY104-H341 10-U10077 | 3/22/77 | T.R.T.-AHV-20 Radar Altimeter | Canceled |
| AMW071-A342 10-U09834 | 3/16/77 | AGEH Calm Water Operating Characteristics | Trial Complete. No report planned |
| BHY074-H343 10-U09835 | 4/20/77 | Experimental Determination of Array Survival Loads | by NUSC 3373. |
| BHY103-P344 10-U09836 | 1/24/78 | HS1001 VDS Trials | Active |

**ADVANCED HYDROFOIL DEVELOPMENT TRIALS PROGRAM
DOCUMENTATION REVIEW**

ATTACHMENT-2 WTA LISTING FROM 1975

| WTA No. | Entered on Trans- mittal List | Subject | Author |
|--------------------|---|---|--------------|
| 1 608-75-001A | | PLANTVIEW (AGEN-1) Main Steering Plate Repairs | |
| 2 610-75-002P | | PCII-1 Mod 1 Serv/Toll Information | |
| 3 610-75-003P | 1/3/73 | Senex VCO Driver and 17 VCO's | E. Ulrich |
| 4 610-75-004A | 2/10/73 | AGEN-1 Electro-Hydraulic Servo Valves | D. Sorenson |
| 5 6007-75-005P | 2/20/73 | Survey and Replacement Recommendations for Nacelle and Systems Bolts, PCII-1 | D. Sorenson |
| 6 Boeing-75-006P | 3/5/73 | PCII-1 Std Nacelle/Strut Stud Vibrations Data During Transmission | D. Sorenson |
| 7 6010-75-007K | 3/3/73 | History of Hydrotail Foreign Object Impacts | D. Sorenson |
| 8 6115-75-008P | 3/14/73 | Obtain "Wave Rider" Buoy to Support PCII-1 Buoy Water Trials | D. Blanchard |
| 9 Boeing-75-009P | 3/20/73 | Engineering Assistance for PCII-1 Navigation System | D. Sorenson |
| 10 Boeing-75-010P | 3/20/73 | Follow-on Work Required for PCII-1 Nacelle/Stud Strut Structural Data | D. Sorenson |
| 11 Boeing-75-011P | 4/1/73 | PCII-1 Nacelle/Stud Bush Repair/Modification Recommendations | D. Sorenson |
| 12 Boeing-75-012 P | 4/7/73 | Feasibility of Using a Different Hydraulic Fluid on PCII-1 | D. Sorenson |
| 13 Boeing-75-013P | 4/14/73 | Engineering Assistance Required for PCII-1 | D. Sorenson |
| 14 1107-75-014A | 4/19/73 | AGEN-1 Ship Plan Holder (SHP) Updating | D. Sorenson |
| 15 1107-75-015A | 4/22/73 | HUDAP Installation Support on PLANTVIEW | A. A. Arne |
| 16 Boeing-75-016A | 4/22/73 | Engineering Assistance Required for AGII-1 Structural Log | D. Sorenson |
| 17 1107-75-017A | 4/24/73 | Engineering Assistance Required for AGII-1 | D. Sorenson |
| 18 1107-75-018P | 4/27/73 | Blocking of PCII-1 P/B Strut Trailing Edge Fairing Voids with Polyurethane Foam | D. Sorenson |
| 19 1107-75-019P | 4/27/73 | Inspecting and Repair of PCII-1 Upper Level Gasholes | D. Sorenson |
| 20 1107-75-020P | 4/28/73 | Instrumentation Engineering Assistance Required for PCII-1 | D. Blanchard |
| 21 1107-75-021A | 4/29/73 | AGII-1 Instrumentation Service | D. Blanchard |
| 22 1107-75-022P | 4/30/73 | PCII-1 At: Pod Ventilated/Cavitation Corrections Reporting | A. H. Ross |
| 23 1107-75-023P | 4/30/73 | Engineering Review of MOTU Revised/Updated PCII-1 Computer and Wires | D. Blanchard |

| No. | WTA No. | Entered on Approved List | Transmittal | Subject | Author |
|-----|-----------------------|--------------------------|--------------------|--|----------------------------|
| 24 | 1107-75-024P | 7/10/75 | 7/14/75 | Plot Existing Real Time PCH-1 Speed and Power Information | D. Blanchard |
| 25 | 1107-75-025P | 7/10/75 | 7/16/75 | PCH-1 Turbine Disconnect Coupling Alignment, Tooth Wear Patterns and Associated Structure Inspections and Record Documentation | D. Sorenson |
| 26 | 1107-75-026P | | 7/16/75 | PCH-1 Air Nozzle/Strut Stub Inspection and Repair | W. Youngstrom |
| 27 | 1107-75-027P | | 7/16/75 | Digital Fuel Flow Readings at DCC | D. Blanchard |
| 28 | 1107-75-028P | | 7/16/75 | Orbit and Design Installation for 8 Spectro-to-DG Converters for PCH-1 Instruments Set | D. Blanchard |
| 29 | 1107-75-029P | | 7/23/75 | Engineering Support Required for PCH-1 July-August 1975 TAV | D. Sorenson |
| 30 | 1107-75-030P | | 7/10/75 | Provide New and Separate Source for 24 VDC Needed for Instrumentation Control Function on PCH-1 | D. Blanchard |
| 31 | 1107-75-031A Rev A | 8/4/75 | 8/7/75 11/24/75 | Main Strut Down Lock Assembly Alignment Investigation Main Strut Down Lock Assembly Alignment and Realign- ment | D. Sorenson D. Sorenson |
| 32 | 1107-75-032A | | 9/12/75 | Returnishment of the Blige System on AGER-1 | D. Sorenson |
| 33 | 1107-75-033P | | 9/26/75 | HIGH POINT ACS Operation Discrepancy Correction | J. Quisenberry |
| 34 | 1107-75-034P | | 9/30/75 | Evaluate Venturi Prop Tests to Date (Ref NW060-PI07) | A. H. Reed |
| 35 | 1107-75-035P | | 9/30/75 | Analysis and Repair Support for Failed Forward Strutboard Shaft | A. H. Reed |
| 36 | 1107-75-036P | | 10/7/75 | PCH-1 Air Trip Pressure Transducer Relocation | D. Sorenson |
| 37 | 1107-75-037P | | 10/10/75 | Provisions for Installing Wave Height Instrumentation on PCH-1 for Rough Water Trials - Nov. 1975 | D. Blanchard |
| 38 | | | | -038 | |
| 39 | | | | -039 | |
| 40 | | | | -040 | |
| 41 | | | | -041 | |
| 42 | | | | -042 | |
| 43 | | | | -043 | |
| 44 | 1107-75-044A | | 11/21/75 | Test of AGER-1 170 Transmission Lines on System Electric Driven Pump | D. Sorenson |

| No. | WTA No. | Trans mittal | Entered on Approved List | Subject | Author |
|-----|--------------|-----------------|-----------------------------------|----------|--------------|
| 45 | -045 | 1107-75-07A | 11/25/75 | 11/24/75 | D. Blanchard |
| 46 | -046 | 1107-75-08A | 11/25/75 | 11/24/75 | D. Blanchard |
| 47 | 1107-75-08A | 1107-75-08A | 11/25/75 | 11/24/75 | D. Blanchard |
| 48 | 1107-75-08A | 1107-75-08A | 11/25/75 | 11/24/75 | D. Blanchard |
| 49 | 1107-75-08A | 1107-75-08A | 11/25/75 | 11/24/75 | D. Blanchard |
| 50 | 1107-75-08A | 1107-75-08A | 11/25/75 | 11/24/75 | D. Blanchard |
| 51 | 1107-75-051A | 1107-75-051A | 11/26/75 | 11/26/75 | D. Blanchard |
| 52 | 1107-75-052A | 1107-75-052A | 11/25/75 | 11/25/75 | D. Blanchard |
| 53 | 1107-75-001 | 1107-75-001 | | | |
| 54 | 1107-75-002 | 1107-75-002 | | | |
| 55 | 1107-75-003 | 1107-75-003 | | | |
| 56 | 1107-75-004A | 1107-75-004A | | | |
| 57 | 1107-75-005A | 1107-75-005A | | | |
| 58 | 1107-75-006A | 1107-75-006A | | | |
| 59 | 1107-75-007A | 1107-75-007A | | | |
| 60 | 1107-75-008A | 1107-75-008A | | | |
| 61 | 1107-75-009A | 1107-75-009A | | | |
| 62 | 1107-75-010A | 1107-75-010A | | | |
| 63 | Revised | | | | |
| 64 | 1107-75-011 | 1107-75-011 | | | |
| 65 | 1107-75-012A | 1107-75-012A | | | |
| 66 | 1107-75-013 | 1107-75-013 | | | |
| 67 | 1107-75-014 | 1107-75-014 | | | |
| 68 | 1107-75-015 | 1107-75-015 | | | |
| 69 | 1107-75-016 | 1107-75-016 | | | |
| 70 | 1107-75-017 | 1107-75-017 | | | |
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| 73 | 1107-75-020 | 1107-75-020 | | | |
| 74 | 1107-75-021 | 1107-75-021 | | | |
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| 76 | 1107-75-023 | 1107-75-023 | | | |
| 77 | 1107-75-024 | 1107-75-024 | | | |
| 78 | 1107-75-025A | 1107-75-025A | | | |
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| 95 | 1107-75-042A | 1107-75-042A | | | |
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| 165 | 1107-75-112A | 1107-75-112A | | | |
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| 214 | 1107-75-161A | 1107-75-161A | | | |
| 215 | 1107-75-162A | 1107-75-162A | | | |
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| 232 | 1107-75-179A | 1107-75-179A | | | |
| 233 | 1107-75-180A | 1107-75-180A | </td | | |

| No. | WTA No. | Entered on Approved List | Trans- mittal | Subject | Author |
|-----|-----------------------|-----------------------------------|------------------|---|-----------------------|
| 65 | 1107-76-013 | | | | |
| 66 | 1107-76-014 | | | | |
| 67 | 1107-76-015A Rev A | 7/20/76 | 7/21/76 | PLAINVIEW Automatic Control System (PACS) Test Input Box Modifications | J. Colman S. Arnes |
| 68 | 1107-76-016 | 8/18/76 | 8/19/76 | HUDAP Installation Support on PLANTVIEW | D. Round |
| 69 | 1107-76-017P | 7/22/76 | 7/22/76 | PCH-1 Nacelle Bolt Failure and Inspection Requirements of Replacement Bolts | S. Arnes |
| 70 | 1107-76-018 | 8/26/76 | 8/26/76 | HIGH POINT (PCH-1); Instrumentation Measurement Survey | S. Arnes |
| 71 | 1107-76-019A | 8/12/76 | 8/26/76 | Recalibration and Updating of the AGCH-1 Hydrostatic Characteristics | D. Round |
| 72 | 1107-76-020P | 8/23/76 | 8/26/76 | Overhaul and Repair of DYNASOC Sengane Tape Recorder | D. Blanchard |
| 73 | 1107-76-021A | 8/20/76 | 8/21/76 | PLAINVIEW (AGCH-1) Test Crew Intercommunication System Survey and Evaluation | D. Blanchard |
| 74 | 1107-76-022A | | 10/7/76 | PLAINVIEW (AGCH-1) Mine Pump Case Drift | S. Arnes (A. Rand) |
| 75 | 1107-76-023P | 10/4/76 | 10/7/76 | PCH-1 Nacelle Strut Stub Failure Analysis | A. H. Rand |
| 76 | 1107-77-001P | | 1/4/77 | HIGH POINT (PCH-1) Port Nacelle Transparency Report | L. Tedesco |
| 77 | 1107-77-002P | | 1/24/77 | HIGH POINT (PCH-1) Headrest Hold Repair | L. Tedesco |
| 78 | 1107-77-003 | | | VDS Installation | S. Arnes |
| 79 | 1107-77-004 | | | PLAINVIEW (AGCH-1) Tape Recorder Adjustment | S. Arnes |
| 80 | 1107-77-005A | | 2/10/77 | Weatherbase Flight Recorder Installation PLANTVIEW | S. Arnes |
| 81 | 1107-77-006A | | 4/4/77 | (AGCH-1) | |
| 82 | 1107-77-007P | | 4/8/77 | VDS Installation | S. Arnes |
| 83 | 1107-77-008 | | | Examination of Failed AGCH-1 Propeller Blade #777 | D. Round |
| 84 | 1107-77-010A Rev 1 | | 6/24/77 | Examination of Failed AGCH-1 Propeller Blade #777 | S. Arnes |
| 85 | 1107-77-011P | | 6/23/77 | Radio Installation for Pressure Recording Trials | D. Blanchard |
| 86 | 1107-77-012A | | 6/23/77 | Armoring AGCH-1 Port Overhead Checklist Agenda | D. Sonnen |

| No. | WIA No. | Transmittal | Entered on Approved List | Subject | Author |
|-----|--------------|-------------|--------------------------|--|--------------|
| 82 | 1107-77-012A | 8/12/77 | 8/24/77 | Annotated AGCH-1 Agenda 77-H-A02X, PACS Pitch Heave Oscillation Investigation, and Agenda 77-H-A02X, Yaw Oscillation Investigation | J. Colman |
| 83 | 1107-77-012A | 8/21/77 | 8/25/77 | Annotated AGCH-1 Post Overhaul Checkout Agenda | D. Sorenson |
| 86 | 1107-77-012P | 8/15/77 | 8/15/77 | HIGH POINT (XCH-1) Starboard Upper and Lower Trimailisation Overhaul | L. Tedesco |
| 92 | 1107-77-016 | | | | |
| 92 | 1107-77-017 | | | | |
| 93 | 1107-77-018A | | 8/30/77 | RPV Air Flow Investigation (AGCH-1) | S. Arine |
| 94 | 1107-77-019 | | 11/28/77 | Automatic Control (PAC) and Related Systems Engineering Assistance Required for PLAINVIEW | J. Colman |
| 95 | 1107-77-020A | | 12/1/77 | Data Processing for RPV Air Flow Investigation (AGCH-1) | D. Blanchard |
| 96 | 1107-77-021A | | 12/6/77 | Correction of PLAINVIEW (AGCH-1) Strat Locking Circuit Deficiencies | S. Arine |
| 97 | 1107-78-001A | | 1/13/78 | Documentation of AGCH-1 Gas Turbine Control Logic | S. Arine |
| 98 | 1107-78-002A | | 1/13/78 | PCH-1 Ship Plan Index (SPD) Updating | D. Sorenson |
| 99 | 1107-78-003P | | 1/17/78 | AGCH-1 Inactivation Salvage Work List and Detailed Work Package ; Assist | D. Sorenson |
| 100 | 1107-78-004A | | 1/17/78 | PLAINVIEW (AGCH-1) Deck Roll and Night Transport Investigation Agenda 77-H-A02X | J. Colman |
| 101 | 1107-78-005A | | 1/18/78 | PLAINVIEW (AGCH-1) Automatic Control System (PLACS) Installation, Operation and Maintenance Characteristics | A. H. Reed |
| 102 | 1107-78-006A | | 1/18/78 | HIGH POINT (PCH-1) Long Term Reactivation Work Assist | S. Arine |
| 103 | 1107-78-007P | | 1/24/78 | PLAINVIEW (AGCH-1) Hydromatic System; evaluation of PLAINVIEW (AGCH-1) Characterization Curves | S. Arine |
| 104 | 1107-78-008A | | 4/24/78 | HIGH POINT (PCH-1) Characteristic Data (Towing Configuration) | S. Arine |
| 105 | 1107-78-009A | | 4/24/78 | PLAINVIEW (AGCH-1) Automatic Control System evaluation | S. Arine |
| 106 | 1107-78-010P | | 4/24/78 | of | |
| 107 | 1107-78-011A | | 4/24/78 | | |

**ADVANCED HYDROFOIL DEVELOPMENT TRIALS PROGRAM
DOCUMENTATION REVIEW**

**ATTACHMENT-3 PLAINVIEW (AGEH-1) OPERATIONAL SUMMARY
BY VOYAGE NUMBER. 1977 & 1978.**

PLAINVIEW

OPERATIONAL SUMMARY

| PLAINVIEW | | | | | | TRIALS SUBJECT |
|---------------|-----------|------------------------|----------|------------------|----------------|--|
| VOYAGE NUMBER | DATE | AGENDA NO. & ER | F/B TIME | CURRENT F/B TIME | TOTAL F/B TIME | |
| H-1 | 7 Jan 77 | 76-H-A07X | -- | -- | 190:32 | Last Foilborne Operation: 11 Dec 1972 Last Hullborne Operation: 2 Feb 1973 |
| H-2 | 10 Jan 77 | 76-H-A07X | -- | -- | -- | Post RAV Underway Checkout Hullborne. No Ops. No O.D. Throttle Control Docksides |
| H-3 | 11 Jan 77 | 76-H-A07X | -- | -- | -- | Post RAV Underway Checkout Hullborne. Conducted Man. & Dock. Drills Hullborne. |
| H-4 | 13 Jan 77 | 76-H-A07X | -- | -- | -- | Post RAV Underway Checkout Hullborne. EM Log Inop. H/B Turns Tail Foil Extended |
| H-5 | 26 Jan 77 | 76-H-A07X | -- | -- | -- | Post RAV Checkout H/B. EM Log Inop; Test Att Strut and O.D. Steering |
| H-6 | 10 Mar 77 | 76-H-A07X | -- | -- | -- | Post RAV Checkout H/B With F/B Propulsion EM Log Op; Define Torsionals |
| H-7 | 17 Mar 77 | 77-H-A01X | -- | -- | -- | H/B PACS Checkout; H/B Transit thru Tors 1st; Broad Fwd Foils; 12 Hz Vert Oscillations. |
| H-8 | 25 Mar 77 | NONE - ISE | -- | -- | -- | Invest. effect of lead-lag filters and Pitch Rate Gains on 12 Hz Vert Oscillations. |
| H-9 | 25 Apr 77 | 77-H-A01X | -- | -- | -- | H/B Transit Todd Shipyard to PSNS |
| H-10 | 6 May 77 | 77-H-A01X 76-H-A07X | 0:42 | 0:42 | 195:14 | No Trials Operations; GT and APU Starting Problems. |
| H-11 | 10 May 77 | 76-H-A07X | 1:42 | 2:24 | 196:56 | Find and Patch Out Vert Oscillations: Cont: W/1th Post RAV Checkout; Initial F/B ops. |
| H-12 | 12 May 77 | 76-H-A07X | 3:55 | 6:19 | 200:51 | Post RAV Checkout F/B; 14' 40 Kt Turns to 4 Deg/Sec; Helm Steps; Depth Steps; F/B Neg x. |
| H-13 | 17 May 77 | 76-H-A07X | 1:47 | 8:05 | 202:38 | Post RAV Checkout F/B; 40 & 45 Kt Turns 350 Ton Takeoff, Large VIP Contingent |

OPERATIONAL SUMMARY

| PLAINVIEW | | | | | | TRIALS SUBJECT | |
|---------------|------------|---------------|----------|------------------|----------------|--|--|
| VOYAGE NUMBER | DATE | AGENDA NUMBER | F/B TIME | CURRENT F/B TIME | TOTAL F/B TIME | | |
| H-14 * | 19 May 77 | NONE - ISE | 2:08 | 10:14 | 201:45 | PSNS - KEYPORT - ESQUIMALT TRANSIT Yaw Rate discrepancy in 4.2 deg/sec. / turn | |
| H-15 * | 20 May 77 | NONE - ISE | 1:52 | 12:06 | 206:38 | ESQUIMALT - KEYPORT - PSNS VIP Transit | |
| H-16 * | 21 May 77 | NONE - ISE | 1:09 | 13:15 | 207:47 | PSNS - ESQUIMALT Transit Lower SS3 operation during transit. | |
| H-17 * | 24 May 77 | NONE - ISE | 1:46 | 15:01 | 209:33 | ESQUIMALT - PSNS TRANSIT | |
| H-18 * | 31 May 77 | NONE - ISE | 0:09 | 15:10 | 209:42 | Demo for HYSTU Staff and refueling | |
| H-19 | 2 June 77 | 76-H-A07X | 5:00 | 20:10 | 214:42 | F/B Xmas Vibration & Airline Noise Survey Agenda Event 8; 45 Kt Err Lng chg: Max Flt | |
| H-20 | 17 June 77 | NONE - ISE | 1:22 | 21:32 | 216:04 | GT performance evaluation by NAVSEC Phila. Swing ship for compass alignment. | |
| H-21 * | 20 June 77 | NONE - ISE | 0:00 | 21:32 | 216:04 | H/B Transit to Manchester for refueling | |
| H-22 | 21 June 77 | 77-H-A02X | 0:28 | 22:00 | 216:32 | Checkout of GT operation and FACS patches. Photo Mission. No Agenda events completed. | |
| H-23 | 22 June 77 | NONE - ISE | 0:32 | 22:32 | 217:04 | Check oper of 6T engines and port LO sys. Detonations from both GT's. Port pedestal & SL division bearing temperatures high. | |
| H-24 | 23 June 77 | NONE - ISE | 0:53 | 23:25 | 217:57 | Check GT variable vane oper. No detonations. Demo for Vadm Bryen & Supships 13 officers. | |
| H-25 | 7 July 77 | 77-H-A02X | 0:03 | 23:28 | 218:00 | Checkout of FACS Patches. Test operations canceled due to ship machinery problems. | |
| H-26 | 22 July 77 | 77-H-A02X | 3:29 | 26:57 | 221:29 | Checkout of FACS patches. Test operations interrupted by misc invalid FACS alarms. | |
| H-27 | 25 July 77 | 77-H-A02X | 1:32 | 28:29 | 223:01 | Checkout of antibroaching logic completed. Tests terminated by port FG propeller failure? | |

* Log Package Not Distributed

PLAINVIEW

OPERATIONAL SUMMARY

| Voyage Number | Date | Agenda Number | F/B TIME | CURRENT F/B TIME | TOTAL F/B TIME | TRIALS SUBJECT |
|---------------|------------|------------------------|----------|------------------|----------------|--|
| | | | | | | |
| H-28 | 25 July 77 | NONE | 3:11 | 31:40 | 226:12 | AGFH-1 & PHF-1 Pressure Ranging. First use of new port F/B propeller. Check PACS EPER LAND function while foilborne. |
| H-29 | 3 Aug 77 | NONE | 3:25 | 35:05 | 229:37 | AGFH-1 & PHF-1 Pressure Ranging. ISF opens with PHF-1 & PACFLT Group. Fire in p shaft tunnel |
| H-30 | 31 Aug 77 | NONE | 0:40 | 35:45 | 230:17 | Foilborne transmission system checkout and vibration survey at 305 tons. Refuel |
| H-31 | 2 Sept 77 | NONE | 0:40 | 36:25 | 230:57 | Foilborne transmission system checkout and vibration survey at 350 tons. Int port prop |
| H-32 | 19 Oct 77 | NONE | 0:00 | 36:25 | 230:57 | Voyage cancelled dockside due to various mechanical problems |
| H-33 | 20 Oct 77 | NONE | 1:41 | 38:06 | 232:38 | Demo for Capt Ricketts. OIC OTMSROC |
| H-34 | 25 Oct 77 | 77-H-A05X | 1:26 | 39:32 | 234:04 | Initiate RPV Wind Survey Tests. Trials cancelled due to loss of H/B SH pressure. |
| H-35 | 27 Oct 77 | 77-H-A05X 77-H-A02X | 0:00 | 39:32 | 234:04 | Voyage cancelled dockside due to PACS Sensor Power Supply fuse problems. |
| H-36 | 10 Nov 77 | 77-H-A05X | 1:26 | 40:58 | 235:30 | Checkout and RPV Wind Survey Tests. |
| H-37 | 11 Nov 77 | NONE | 0:30 | 41:28 | 236:00 | Demo for Asst Secteur Hidalgo |
| H-38 | 21 Nov 77 | 77-H-A04X | 0:00 | 41:28 | 236:00 | No propeller erosion trials completed due to miscellaneous engineering problems. |
| H-39 | 28 Nov 77 | 77-H-A04X | 0:00 | 41:28 | 236:00 | Voyage cancelled dockside due to assumption that Kline pump compensates a severe inoperative |
| H-40 | 1 Dec 77 | NONE | 1:10 | 42:38 | 237:10 | Checkout ops only due to rough water and loss of valve in stbd propulsion diesel engine. |
| H-41 | 8 Dec 77 | 77-H-A04X | 0:00 | 42:38 | 237:10 | Light ship eval of F/B propeller erosion Search for main loss off Point Marion |

PLAINVIEW

OPERATIONAL SUMMARY

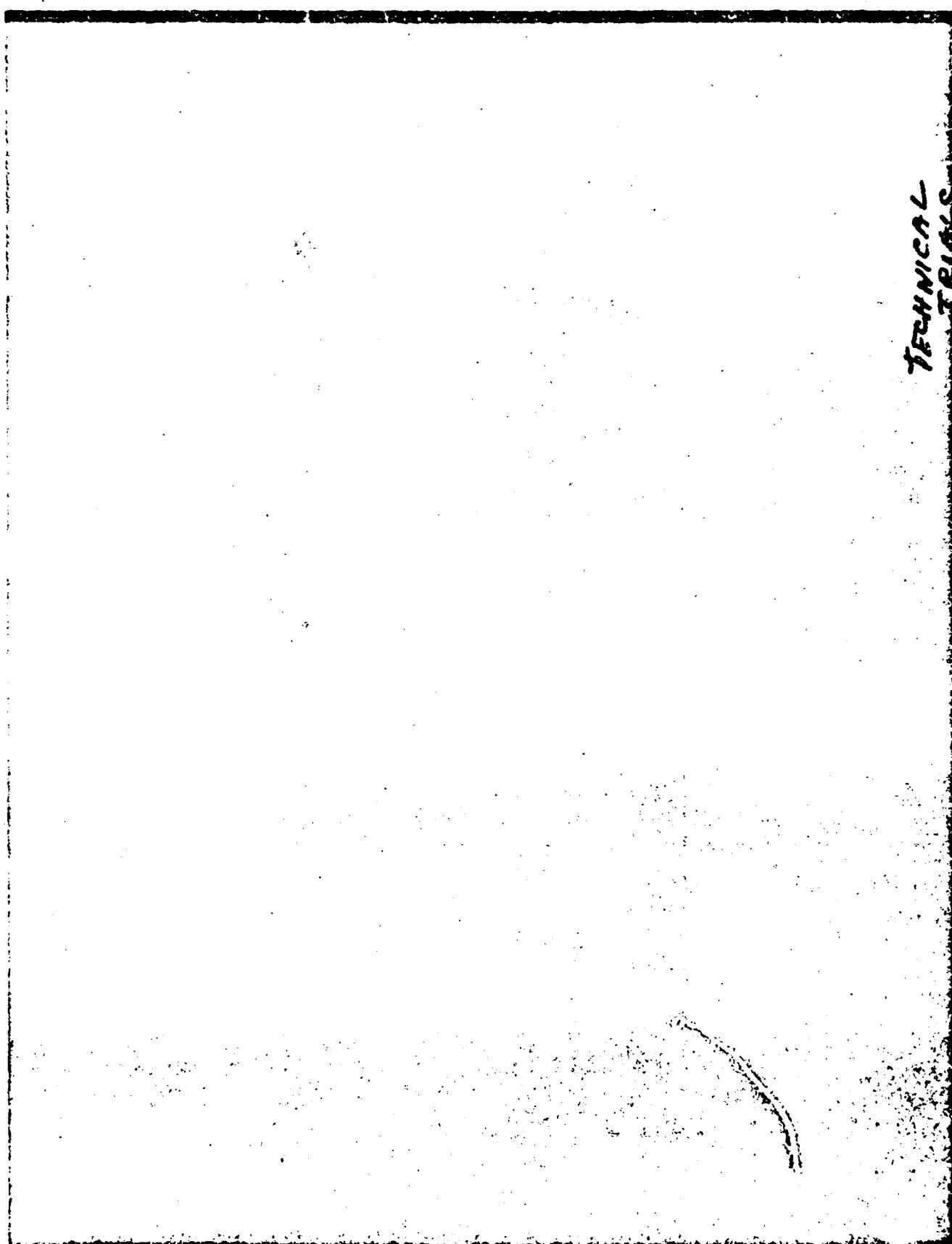
| VOYAGE NUMBER | DATE | AGENDA NUMBER | F/B TIME | CURRENT F/B TIME | TOTAL F/B TIME | TRIALS SUBJECT |
|---------------|-----------|---------------|----------|------------------|----------------|---|
| H-42 | 12 Dec 77 | NONE | 0:00 | 42:38 | 257:10 | RPV Guest Probes. No trial operations. Refuel, Loss of Std Outdriv'e |
| H-43 | 16 Dec 77 | NONE | 0:42 | 43:20 | 237:52 | Successful launch and recovery of guest probes in initial RPV trials |
| H-44 | 14 Feb 78 | NONE | 0:00 | 43:20 | 237:52 | Post RAV Checkout. Trials cancelled due to excessive GT vibrations. Not confirmed dockside with no load run in. |
| H-45 | 15 Feb 78 | NONE | 0:12 | 43:32 | 238:04 | Post RAV checkout. GT vibrations still high. Two steering anomalies due to ast strut paint chin. Port SW system only. |
| H-46 | 21 Feb 78 | No IE | 2:08 | 45:40 | 240:12 | GT vibration signatures dockside, H/B & F/B. Operation with Port SW sys only is successful. Slow amrox 3 mins. takeoff. |
| H-47 | 07 Mar 78 | 77-H-A03X-A | 0:00 | 45:20 | 240:12 | No trial operations. Voyage terminated with repeated failure of std GT to start. |
| H-47 | 09 Mar 78 | 77-H-A03X-A | 1:16 | 46:56 | 241:28 | No agenda events completed. Takeoffs performed with different procedures. |
| H-49 | 14 Mar 78 | 77-H-A03X-A | 3:06 | 50:02 | 244:34 | Effect of PACS patches on "Dutch Pail" and Yaw oscillations. Port turn to 6.3 deg/sec |
| H-50 | 21 Mar 78 | NONE | 0:36 | 50:38 | 245:10 | Demo for POIC, Lt. Ackley Refuel to approximately 348 tons |
| H-51 | 22 Mar 78 | NONE | 3:32 | 54:10 | 249:42 | Demo for POIC, last ops for Lt. Hudson Fire drill. Minor lat discrep, depth set erratic |
| H-52 | 30 Mar 78 | 77-H-A03X-B | 0:00 | 54:10 | 248:42 | Voyage cancelled dockside due to hose fitting failure in port upper LO system |
| H-53 | 04 Apr 78 | 77-H-A03X-B | 0:16 | 54:26 | 243:58 | Not trial operations performed. Voyage terminated with a hydraulic system leak. |
| H-54 | 06 Apr 78 | 77-H-A03X-B | 2:15 | 56:41 | 251:13 | Completed Agenda Event 1. Trans't Conference-ment Bay, Tacoma. Turn to -5.8 deg/sec |
| H-55 | 09 Apr 78 | NONE-1ST | 2:07 | 58:48 | 253:20 | Support Tacoma Civic activities |

OPERATIONAL SUMMARY PLAINVIEW

OPERATIONAL SUMMARY

| Voyage Number | Date | Agenda Number | F/B TIME | CURRENT F/B TIME | TOTAL F/B TIME | TRIALS SUBJECT |
|---------------|------------|---------------|----------|------------------|----------------|---|
| | | | | | | |
| H-56 | 13 Apr 78 | 77-H-A03X-B | 0:06 | 58:54 | 253:26 | Refuel; No trial operations due to port bilge (pod) and elec LQ scav pump problems |
| H-57 | 25 Apr 78 | 77-H-A03X-B | 1:53 | 60:47 | 255:19 | Complete agenda Event 2 Cond A thru D. Depth trans in turns. ISE ops with PCH-1 |
| H-58 | 11 May 78 | 77-H-A03X-B | 1:15 | 62:02 | 256:34 | Port Outdrive Re-aligned docksides. Complete Event 3 Cond A & B. Add 720 deg turns. |
| H-59 | 20 May 78 | NONE-1SE | 2:53 | 64:55 | 259:27 | Support Port Townsend and Navy League Civic Activities. Lower SS 4 or High 3? |
| H-60 | 23 May 78 | NONE-1SE | 2:38 | 67:33 | 262:05 | Transit of Pressure Ranging trials test site and Elliott Bay. |
| H-61 | 25 May 78 | NONE-1SE | 1:30 | 69:03 | 263:15 | Refuel - Std F/B XENON system vibration survey - Fire in port shaft alley. |
| H-62 | 22 June 78 | NONE-1SE | 0:00 | 69:03 | 263:35 | Machinery Checkout- Airstart APU on deck Cancel ops with Stbd GT hot start & oil leak |
| H-63 | 23 June 78 | NONE-1SE | 0:34 | 69:37 | 264:09 | Machinery Checkout-All systems acceptable |
| H-64 | 26 June 78 | NONE | 4:11 | 73:48 | 268:20 | Pressure Ranging Trials |
| H-65 | 12 July 78 | 78-H-A01X | 0:10 | 73:58 | 268:30 | Full Power Trials (Hullborne on F/B propel.) Fire in port shaft tunnel. |
| H-66 | 14 July 78 | NONE | 0:00 | 73:58 | 268:38 | ISE For Lube Oil Exchange and Drills No Loss Maintained |

TECHNICAL
ARTICLES



HULL STRUCTURE

SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 1.

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - HULL STRUCTURE

QUERY-PART NO. WNN001

OCT 17 1976

DOCUMENT
NUMBER

BOEING CO.
(U) HYDROFOIL CRAFT STRUCTURAL CRITERIA-RELATED
EXPERIENCE

CORNI, R.
FRENCH, M.
WATSON, P.

APR 72 RELEV 1

D221-11000-2

NO0600-71-C-0566
REMARKS: FOR RECOMMENDATIONS FOR CRITERIA
DEVELOPMENT. SEE BOEING DOC. D221-11000-3
(DB/NO. UC-4820) CURRENTLY UNDER NAVY REVIEW.

BOEING CO.

(U) STRUCTURAL INSPECTION-AGEN-1 PLAINVIEW PRE-ROUGH
WATER TESTING (1972) HYSTU PLAN BE129-4197

JAN '73 RELEV 4

LTR 2-1524-1000-897

NO0600-69-C-0618

BOEING CO.
(U) PLAINVIEW SHIP MOTIONS AND ACS OPERATION
FOLLOWING THE STARBOARD FOIL INCIDENCE CONTROL
LINKAGE FAILURE
COLEMAN, J.T.
TN-A-15
NO0600-69-C-0618
REMARKS: ALSO SEE NSROC MEMO, DB NO. 10-02263

BOEING CO.
(U) EROSION CORROSION INSPECTION REPORT. OUTDATED
SMALL-BOAT TOP AREA, PLAINVIEW, AGEN-1, 16 PER
1973
LTR 2-1524-1000-917
NO0600-69-C-0618

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QUERY-AUT NO. MNNOO!

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DOCUMENT NUMBER

10-U02145 N

BORING CO.
(U) SHIP BEHAVIOR DURING SEA SPARROW/HYDROFOIL
COMPATIBILITY TESTS ON PLAINVIEW (AGEH-1)

LTA 2-1524-100-049
MAY 73 RELEV 4

REMARKS: REF TRIALS PLAN MN040A-A272 (10-U07239)

BOEING CO.

(U) HULL IMPACT TRIALS (89 PP)
WATSON, F. B. OCT 74 RELEV 4

TN-A-17

MO000-89-C-0618
REMARKS: REF TRIALS PLAN BE138-A248 (10-U06820),
PROVIDES CORRELATION BETWEEN MEASURED AND
PREDICTED RIGID BODY MOTIONS. REPORT IS LIMITED
IN TERMS OF VALIDATING THE PREDICTION TECHNIQUES.

BORING CO.
(U) TRIALS PLAN-AGEH-1 HULL IMPACT CHARACTERISTICS
(29 PP)

OCT 74 RELEV 5

BE138-A248

REMARKS: REF RPT 10-U05720 (TN-A-17)

BOEING CO.

(U) HYDROFOIL COATINGS LOG (34 PP)
MARTIN, D.W. SEPT 76 RELEV 3

D324-S1308-1

M00167-78-0-6241

REMARKS: AN IMPORTANT SUMMARY OF THE HISTORY OF
COATING PERFORMANCE ON U. S. HYDROFOILS-HULL,
FOILS, STRUTS.

10-U05720 N

10-U05720 P

10-U06820 LM

10-U06820 P
SEPT 76 RELEV 3

M00167-78-0-6241

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TECHNICAL - HULL STRUCTURE

QUERY-PART NO. MM0001

OCT 17 1978

DOCUMENT NUMBER

10-U08833 M

BOEING CO.
(U) FATIGUE ANALYSIS OF THE PCH-1 KING POST (45 PP)
ROUND. D.H.
RPT-6

10-C00760

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PCH-1 EXERCISE ADMIXTURE TRIALS (U) (76 PP)
(COMPREHENSIVE REPORT OF 4-DAY OPERATION)
ROBERTS, J.H.
LTR-SER-01-72
TAE-SAD-13E-1966
REMARKS: REF TRIALS PLAN NE028-P230 (10-U08728) AND
REPORT 10-S00115

10-U01230 M

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) MEASUREMENT OF AGEM STRUT-FOIL AND HULL DYNAMIC
CHARACTERISTICS BY "PLUCK" TEST
PEOPLES, J.R.
SEPT 72 RELEV 2
TN-SD-173-238
REMARKS: PROVIDES VERIFICATION OF ANALYTICAL AND
EXPERIMENTAL TECHNIQUES

10-U05840 M

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) FATIGUE DAMAGE SURVEY OF EXISTING HIGH
PERFORMANCE SURFACE SHIPS (14 PP)
JOHNSON, W.S.
DEC 72 RELEV 2
TN-SD-173-238

10-U02263 M

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) FAILURE OF PLAINVIEW (AGCH-1) STARBOARD FOIL
INCIDENCE LINK, 11 DECEMBER 1972
YARNALL, P.
MAR 73 RELEV 2
MEMO 73-173-M98
REMARKS: COMPREHENSIVE DESCRIPTION OF THE FAILURE
AND HULL IMPACT. SEE DB NO. 10-U01911

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

QUERY-PART NO. WNN0001

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 MOD-1 CALM WATER STRUCTURAL
TESTS (127 pp)
BUCKLEY, M.H.
NW049-P294
REMARKS: REF RPTS 10-U05046, 10-U08834, 10-U05047
AND 10-U05116

10-007245 F

(U) USS PLAINVIEW (AGEH-1) PRELIMINARY VIBRATION
STUDIES-REF TRIALS PLAN NW031-A231 (10-U07231)
SCHAUER, R.E.
TSE-SAD-79E-1986
REMARKS: WELL DONE STUDY WHICH COMPARES FULL SCALE
AND ANALYTICAL PREDICTIONS FOR MULL AND FOIL
SYSTEM VIBRATIONAL CHARACTERISTICS AND STRUT
FLUTTER SPEEDS. COMPARISON WITH MIL STD 167B AND
HUMAN VIBRATION TOLERANCES LEVELS ARE ALSO MADE

10-005277 H

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) INSPECTION TRIP TO U. S. NAVY HYDROPOIL
PLAINVIEW (AGEH-1) 12-14 OCT 1973 (TRIP REPORT)
JOHNSON, W.S.
LTR 74-173-99:173:MSJ

10-005262 H

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) SEA SPARROW/HYDROFOIL COMPATIBILITY TRIALS
YARNALL, P.
MEMO CODE-1731 PY:74-173-M
REMARKS: REF TRIALS PLAN NW040A-A27 (10-U07239)
DOCUMENTS ASPECTS OF TRIAL PERTAINING TO
HYDROPOIL STRUCTURES

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HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - HULL STRUCTURE

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OCT 17 1976

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 MOVIES OF STRUCTURAL MANEUVERS

(7 PPI)

JULY 74 RELEV 5

YARNALL, P.

NM062-324C

REMARKS: ONE MOVIE COMPLETED-REMAINDER OF TRIAL
CANCELLED)2111:6315:109211A:507:2002:0100

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIP REPORT TO HYSTU AND BOEING (RE: AGEM

FOIL/STRUT INSPECTION; PCH-1 MCD-1 TRIALS SUMMARY

(21 PPI)

NOV 74 RELEV 5

YARNALL, P.

JAD/74-173-021

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 BASE LINE
O'NEILL, W.C.

25

27

DEC 74 RELEV 7

NM06-P330

REMARKS: REPORT TO BE RELEASED

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL 1 & VOL 11

(U)

JUNE 76 RELEV 1

TN-SOC-119-18

REMARKS: REF DE/NO 10-500168

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 6

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - HULL STRUCTURE

QUERY-PART NO. WNA001

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RD CENTER 10-U08621 M
(U) REVIEW OF PCH-1 FOIL SYSTEM VIBRATION INFORMATION
FOR USE IN PREPARATION OF VIBRATION SURVEY TRIALS
PLAN 148 PP
VARNALL, P.
LTR-76-173-M102

DAVID W. TAYLOR NAVAL SHIP RD CENTER 10-U08668 LM
(U) RESULTS OF VISIT TO BOEING (MSD) 9/24-26 REVIEW
OF PHM-3 SERVICE LOADS & PCH-1 (HOD-11) WIND POST
PATIGUE ANALYSIS (8 PP)
BUCKLEY, W.H.
LTR-77-173-209

HENRY (J. J.) CO., INC. 10-U02851 M
(U) FOUNDATION FOR HARPOON LAUNCHER ON PCH-HPO
1-SCANTLING CALCULATIONS JUNE 73 RELEV 4

J.O. # 1045-03
REMARKS: REP TRIALS PLAN NW043-P305 (10-U07243)

HENRY (J. J.) CO., INC. 10-U05173 M
(U) FOUNDATION FOR CANISTER LAUNCHER ON PCH-1
JUNE 73 RELEV 5

SKETCH NO 100-
REMARKS: REP TRIALS PLAN NW043-P305 (10-U07243)

JOHNS HOPKINS APPLIED PHYSICS LABORATORY 10-U09820
(U) FLOW FIELDS ABOVE FANTAIL OF PLAINVIEW HYDROFOIL
SHIP, AS DEDUCED FROM WIND TUNNEL DATA (26 PP)
CRAMER, R.
JAN 78 RELEV 4
BAF-1-78-04
REMARKS: REF-WTA-1107-77-021A RPV AIR FLOW
INVESTIGATION (AGEH-1)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 7

HYDROFOIL C AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - HULL STRUCTURE

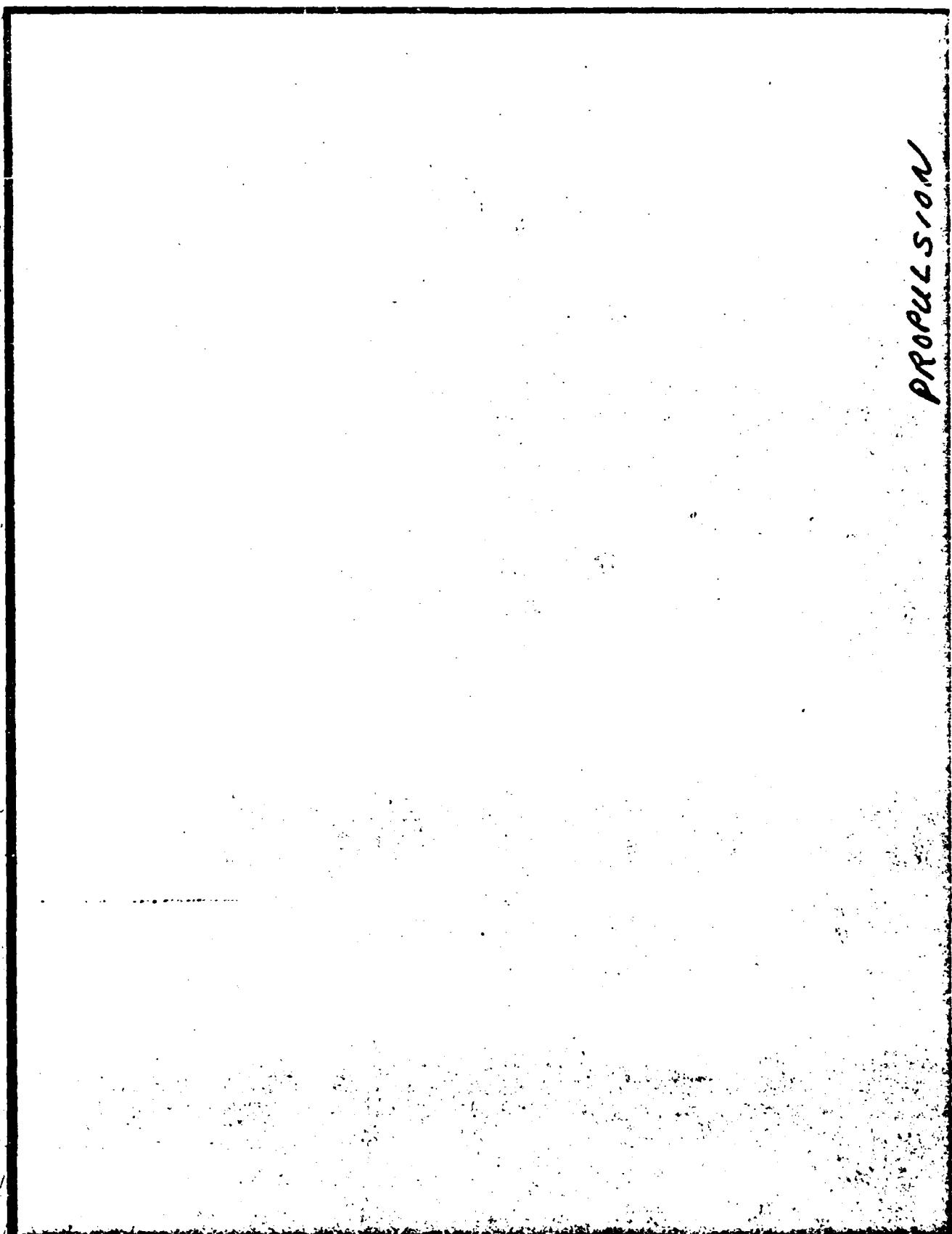
COPYRIGHT NO. WHA101 OCT 17 1978

DOCUMENT NUMBER
10-U01851 F

MARSH ISLAND NAVAL SHIPYARD FOR HYDROFOILS-PROGRESS
(U) COATING DEVELOPMENT FOR HYDROFOILS
REPORT-MARCH 1973 MAR 73 REL/EV S
L. 134.13-94

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PROPOSITION



WILLIAM H. WOOD

SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 1

HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - PROPULSION

QUERY-PART NO. WNN002

OCT 17 1978

DOCUMENT NUMBER

10-U06957 F

BOEING CO.
(U) STANDARD FOIL SYSTEM SURFACE/PROPELLER
INSPECTIONS-AGEH-1 CANCELLATION OF (8 PP)
JAN 72 RELEV 7

MSSTU PLAN EC190-AC

BOEING CO.
(U) SPEED AND POWERING TESTS WITH NEW TORQUE AND
THRUST METERS (PCH-AQD 0)
REIG. D.
LTR 2-1508-1000-685
NO0600-69-C-0618
REMARKS: GOOD SUMMARY OF PCH-NOD O SMOOTH WATER
SPEED AND POWERING TESTS WITH VARIOUS PROPELLERS

10-U06911 M

BOEING CO.
(U) PCMH-1 PROPELLER VENTILATION AIR SUPPLY SYSTEM
TRAILLS CHECKOUT (4 PP)
JUNE 73 RELEV 4
2-1524-1000-081
NO0600-69-C-0618
REMARKS: REF TRIALS PLAN HY082-A269 (10-U07152)

10-U06938 M

BOEING CO.
(U) AGEH-1 ROUGH WATER SPEED POWER DATA
LTR 2-1524-1000-1190
NO0600-69-C-0618
REMARKS: TRIALS PLAN RE1528-A273 (10-U06922)

10-U07448 M

BOEING CO.
(U) PCMH-1 TRANSMITTAL OF REPORT (PHASE 1) STRUCTURAL
STRAIN GAGE RESPONSES DURING THE STARBOARD
FORWARD PROPELLER SHAFT FAILURE OF 9-26-75 (8 PP)
RAND. A.H.
LTR 2-1524-1000-1608
NO0600-75-C-1107

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 2

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - PROPULSION

QUERY-PART NO. WNN002

OCT 17 1978
DOCUMENT NUMBER
10-C01113LM

BOEING CO.

(U) HYDROFOIL RADIATED NOISE (U) (37 PP)
ALLEN, M. OCT 76 RELEV 3

D324-14004-1

REMARKS: INCLUDES REVIEW OF ALMOST ALL U. S.
HYDROFOIL ACOUSTIC RADIATED NOISE INFO.

BOEING CO.
(U) AGEH-1 FOILBORNE TRANSMISSION LUBE OIL SYSTEM

DATA WHILE USING ALTERNATE OPERATING PROCEDURES
(12 PP)

JUNE 77 RELEV 4

LIA H-7308-1000-1957

N00600-75-C-1107

BOEING CO.
(U) FAILED AGEH-1 PROPELLER M & P METALLURGICAL
LABORATORY SUPPORT (7 PP)

ROBERTS, E. DEC 77 RELEV 4
2-5618-0077-276

N00600-75-C-1107

REMARKS: REF-WTA-1107-77-0104 & D/B NO. 10-U09827

BOEING CO.

(U) AGEH-1 FAILED PROPELLER BLADE FATIGUE TEST
LABORATORY TEST REPORT (5 PP)

ROBERTS, E. MAR 78 RELEV 4
2-5618-0078-048

N00600-75-C-1107

REMARKS: REF-TMA-1107-77-010A-REV-1 & D/B NO.

10-U09828

BOEING CO.
(U) AGEH-1 FAILED PROPELLER BLADE FATIGUE TEST
LABORATORY TEST REPORT (5 PP)

ROBERTS, E. MAR 78 RELEV 4
2-5618-0078-048

N00600-75-C-1107

REMARKS: REF-TMA-1107-77-010A-REV-1 & D/B NO.

10-U09829

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 3

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - PROPULSION

QUERY-PART NO. MMW002 OCT 17 1978

DOCUMENT NUMBER

SOLT BERANEK AND NEWMAN, INC. 10-C00974 M

(U) MODEL AND SILENCING PROGRAM FOR UNDERWATER
RADIATED NOISE FROM HYDROFOIL CRAFT (U) (107 PP)
SMULLIN, J.
GOODS, C.
RPT-2496
NO0800-72-C-0890

REMARKS: DRAFT

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U02083 M
(U) AIRBORNE NOISE ANALYSIS OF USS PLAINVIEW (AGER-1)
AFTER INSTALLATION OF AIR INTAKE PLENUM ACOUSTIC
TREATMENT

ARGIRO, L.J. JAN 73 RELLEV 4
LTR RPT 27-247

REMARKS: REF TRIALS PLAN HY074A-A242 (10-U07144)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U07152 F

(U) TRIALS PLAN-AGER-1 FORCED VENTILATION OF
FOLDBORNE PROPELLERS (19 PP)

JULY 72 RELLEV 2

HY082-A269 AUG 72 RELLEV 5

REMARKS: REF RPT 10-U09852

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U07154 F
(U) TRIALS PLAN-AGER-1 SMOKE ABATEMENT FOR LM1500 GAS
TURBINE ENGINES (19 PP)

JULY 72 RELLEV 5

HY085-A275 AUG 72 RELLEV 5

REMARKS: EQUIPMENT INSTALLED-NO REPORT REQUIRED

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U07285 F
(U) OVERHAUL AND UP-DATING MAIN PROPULSION
ENGINES; CANCELLED (4 PP)

PETRY, B.R. OCT 72 RELLEV 7
HYSTU PLAN MA033-HC

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 4

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - PROPULSION

QUERY-PART NO. MNM002 OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U09832
(U) LETTER REPORT ON HYDROFOIL TRIALS PLAN NY082-A289
(12 pp)

MASON J. OCT 72 RELEV 4
LTA-1154-5-EM

REMARKS: REF-TRIALS PLAN-NY082-A289 (10-U07152)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U02479 M
(U) CAUSE OF ACH VIBRATION DURING TAKE-OFF
ANTONIDES, G.P. APR 73 RELEV 4
TN-SAD-49E-1962

REMARKS: REF-TRIALS PLAN NM031-A231 (10-U07231). A
GOOD CONCISE REPORT.

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U07244 F
(U) TRIALS PLAN-PCH-1 MOD-1 VENTED PROPELLER TEST (10
pp)
O'NEILL, M.C. APR 73 RELEV 7
NM046-P269C

REMARKS: CANCELLED

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U05875 M
(U) SERVICE EXPERIENCE OF STRUT AND FOIL DAMAGE ON
NAVY HYDROFOILS (3 pp)
RABEL, C.R. JUNE 73 RELEV 3
MEMO MP-114/ 9566-1 GEN

REMARKS: INFORMAL SUMMARY OF DEBRIS IMPACTS. NOT A
COMPREHENSIVE TREATMENT

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U07248 F
(U) TRIALS PLAN-PCH-1 FEASIBILITY OF MOD-1 PROPELLER
VENTILATION (38 pp)(INCLUDES TRIAL AGENDA)
HALPEP, D.P. JUNE 73 RELEV 5
NM050-P297

REMARKS: REF REPORT ONSRDC SPD-264-11 TO BE
RELEASED

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 5

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - PROPULSION

QUERY-PART NO. WNN002

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-J05460 M
(U) REPORT OF EFFECTS OF DIESEL #2 VS JP-5 ON AGEM-1
MOOLLEN, E.B.
WHITE, E.W.
LTR AGEM-1/TMWSER 74-73

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U07286 F
(U) TRIALS PLAN-PCH-1 MACHINERY AND AIRBORNE NOISE
CHARACTERISTICS (13 PP)
SCHAUB, H.W.
K034A-P301
REF ID: WNS: REF REPORT 10-U05493

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U05277 M
(U) USS PLAINVIEW (AGEM-1) PRELIMINARY VIBRATION
STUDIES-MEP TRIALS PLAN N0031-A231 (10-U07231)
SCHAUER, R.E. APR 74 RELEV 2
T6E-SAD-79E-1986
REMARKS: WELL DONE STUDY WHICH COMPARES FULL SCALE
AND ANALYTICAL PREDICTIONS FOR HULL AND FOIL
SYSTEM VIBRATIONAL CHARACTERISTICS AND STRUT
FLUTTER SPEEDS. COMPARISON WITH MIL STD 187B AND
HUMAN VIBRATION TOLERANCES LEVELS ARE ALSO MADE

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U05849 M
(U) SUMMARY OF HYDROFOIL TRIALS PLANNING WORKSHOP
HELD JUNE 12-13 1974 SEPT 74 RELEV 4
LTR 115:DJC:0080 OR 18 SE

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 6

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - PROPULSION

QUERY-PART NO. MHN002

OCT 17 1978

DOCUMENT NUMBER

10-U07260 F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 BASE LINE
O'NEILL, N.C.

25

27

DEC 74

RELEV 7

REMARKS: REPORT TO BE RELEASED

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL 1 & VOL 11

(U)

JUNE 76

RELEV 1

REMARKS: REF DB/MO 10-S00168

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) HIGHPOWER FOILBORNE TRANSMISSION UNDERWAY
CHECK VI: TRIALS LOG PACKAGE FOR VOYAGE NO. 063.
065. 066. & 068 (22 pp)
WHITEHEAD, V.R.
LTR SER 90-77

APR 77

RELEV 5

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) AGEH-1 TECHNICAL TRIALS LOG PACKAGES FOR THE
PERIOD 31 AUG TO 02 SEPT 1977 (21 pp)

OCT 77

RELEV 5

LTR-SEP-175-11

REMARKS: VOYAGE-32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 442

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) AGEH-1 TECHNICAL TRIALS LOG PKGS FOR THE PERIOD
OF 19 OCT 77 THRU 08 DEC 77 TECH. TRIALS LOG
PKGS & OPERATIONAL SUMMARY (75 pp)

OCT 77

RELEV 5

LTR-SEP-175-11

REMARKS: VOYAGE-32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 442

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 7

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - PROPULSION

QUERY-PART NO. MNM002

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U07282 F
(U) TRIALS PLAN-AGEH-1 INSPECTION OF BEVEL GEARS (5
PP)

SEPT 78 RELEV 5

SCHAB, H.W.

NA030-A247

REMARKS: SEE AGEH-1 TRANSMISSION HISTORY P14

1000A:2002

GRUMMAN AEROSPACE CORP.
(U) AGEH-1 IN SUPPORT OF FUTURE HYDROFOIL SYSTEMS
10-C00776M

DEVELOPMENT-FISCAL YEAR 1974: VOL I HISTORICAL
COMPENDIUM OF INVESTIGATIONS CONDUCTED IN FISCAL

YEAR 1974 (U)(53 PP)

JULY 74 RELEV 4

N00406-74-C-0632

ADC003916

REMARKS: SOME COST ESTIMATES INCLUDED

HENRY (J. J.) CO., INC.
(U) FOUNDATION FOR CANISTER LAUNCHER ON PCHE-1
10-U09172 M

JUNE 73 RELEV 5

SKETCH NO 100-1

REMARKS: REF TRIALS PLAN NM045-P205 (10-U07243)

NAVAL SHIP ENGINEERING CENTER
(U) TELEMETRY SHAFT TORQUE AND TORSIONAL VIBRATION
MEASUREMENTS CONDUCTED ABOARD AGEH-1
WEISS, R.

LTR 6734:RN:JLM:SER 62

RELEV 4
REMARKS: LTR INDICATES THAT NAVSEC TORQUE READINGS
ARE 20-40 LESS THAN READINGS FROM SHIP
INSTRUMENTATION. NAVSEC MEASUREMENTS ARE BELIEVED TO BE CORRECT

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 8

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - PROPULSION

QUERY-PART NO. MNNO02

OCT 17 1978

DOCUMENT NUMBER

PUGET SOUND NAVAL SHIPYARD
(U) USS HIGH POINT (LPH-1) MOD-1)-STRUCTUREBORNE AND
AIRBORNE NOISE SURVEY

MAY 74 RELEV 2

T-10148
REMARKS: REF TRIALS PLAN NAO344-0301 (10-U07286)

SPAEGENS (T. W.)
(U) EVALUATION OF TORSIONAL VIBRATION CHARACTERISTICS
OF FOILBORNE PROPULSION SYSTEMS-HYDROFOIL
PLAINVIEW (AGEH-1)
SPAEGENS, T.W. APR 72 RELEV 4
C1508-1
N00406-72-C-0527
REMARKS: INTERIM REPT. SEE DB NO. 10-U02029

SPAEGENS (T. W.)
(U) PRELIMINARY ANALYSIS OF POSSIBLE SOLUTIONS TO
TORSIONAL, FLEXURAL AND LONGITUDINAL VIBRATION
PROBLEMS IN FOILBORNE PROPULSION SYSTEMS:
HYDROFOIL "PLAINVIEW" (AGEH-1)
SPAEGENS, T.W. MAY 72 RELEV 4
C1508-3
N00406-72-C-0527
REMARKS: SEE DB NO. 10-U02029

SPAEGENS (T. W.)
(U) REVIEW AND UPDATING OF PREVIOUS INTERIM REPORTS
AND CORRECTIVE MODIFICATION FOR TORSIONAL
VIBRATION PROBLEM HYDROFOIL PLAINVIEW (AGEH-1)
SPAEGENS, T.W. MAY 73 RELEV 4
C1508-4
N00406-72-C-0527
REMARKS: ALSO SEE NSRDC TECH NOTE ON SAME SUBJECT.
DB NO 10-U02479

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Auxiliary

systems

SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 1

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - AUXILIARY SYSTEMS

QUERY-PART NO. SHN001

OCT 17 1978

DOCUMENT NUMBER

BOEING CO.
(U) CHARGING AND MONITORING OF THE LOAD COMPENSATOR
FOR FORWARD FOIL ACTUATION SYSTEM-AGEH-1
COLEMAN, J.T. JAN 72 RELEV 4
TN-A-3
NO000-69-C-0618

REMARKS: REVISION B

10-U02151 M

BOEING CO.
(U) MAIN STRUT EXTENSION/RETRACTION SYSTEM TEST
RESULTS
SONENSON, D. JAN 73 RELEV 5
LTR 2-1524-1000-835
NO000-69-C-C618
REMARKS: INSUFFICIENT AND INCOMPLETE ANALYSIS AND
DOCUMENTATION

10-U01197 F

BOEING CO.
(U) TRIALS PLAN-AGEH-1 INSTRUMENTATION AIR
CONDITIONING MODIFICATION (9 PP)
APR 73 RELEV 7
BE211-A232
REMARKS: EQUIPMENT INSTALLED. NO RPT REQUIRED

10-U06970 F

BOEING CO.
(U) TRIALS PLAN-AGEH-1 SALT WATER MACHINERY
CIRCULATING AND COOLING SYSTEM OVERHAUL AND
MODIFICATION (9 PP)
JUNE 73 RELEV 5
BE213A-A235
REMARKS: EQUIPMENT MODIFIED AND OKAY. NO REPORT
REQUIRED

10-U06972 F

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK
SEARCH FOR PAGE 2

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

QUERY-PART NO. MNH001 OCT 17 1978

DOCUMENT NUMBER

BOEING CO. 10-U06973 F
(U) TRIALS PLAN AGEN-1 POTABLE WATER SYSTEM OVERHAUL

AND MODIFICATIONS (12 PP) JUNE 73 RELEV 7

BEPI4A-A208

REMARKS: EQUIPMENT MODIFICATION AND OVERHAUL.

BUNKE-RAMO CORP. 10-C00019L
(U) ACTIVE/PASSIVE RELIABLE ACOUSTIC PATH SONAR

(APRAPS) ANALYSIS AND PREDICTION MODEL AND FINAL

TECHNICAL REPORT (U) (198 PP)

JUNE 77

RELEV 4

DCCG NO 20039-7C9

NO0024-78C-6220

REMARKS: GOOD SUMMARY OF APRAPS DEVELOPMENT PROGRESS
TO DATE.

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U01965 M
(U) REPORT OF EXAMINATION OF MON-METALLIX PIPING

AFTER 18 MONTHS OF SEA WATER SERVICE IN PCH-1

SCAB. H.W. JAN 72 RELEV 4

MEMO CODE-2707

NA007-TRIALS PLAN NA007-P121

REMARKS: REF TRIALS PLAN NA007-P121

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U07287 F
(U) TRIALS PLAN-PCH-1 STUDY OF PRG AND GRP

PIPE/VALVES FOR SEAWATER SYSTEMS (8 PP)

JAN 72

RELEV 8

NA007-P121

REMARKS: REF REPORT 10-U01965

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 3

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

TECHNICAL - AUXILIARY SYSTEMS

QUERY-PART NO. MNNOO!

OCT 17 1978

DOCUMENT NUMBER

10-00760

DAVID M. TAYLOR NAVAL SHIP R&D CENTER
(U) PCH-1 EXERCISE ADMIRALTY TRIALS (U) (76 PP)
(COMPREHENSIVE REPORT OF 4-DAY OPERATION)
ROBERTS, J.H.
LTA-SER-01-72
RELEV 4

REMARKS: REF TRIALS PLAN NAO20-P230 (10-U08728) AND
REPORT 10-50015

DAVID M. TAYLOR NAVAL SHIP R&D CENTER 10-001248 W
(U) FIRE-PROTECTION SYSTEM IN USS PLAINVIEW (AGM-1)
GUSTAFSON, R.E. SEPT 72 RELEV 2
RPT-059.

AD703366
REMARKS: REF TRIALS PLAN NAO20-A251 (10-U07274)

DAVID M. TAYLOR NAVAL SHIP R&D CENTER 10-007274 F
(U) TRIALS PLAN-AGM-1 IMPROVED FIRE FIGHTING SYSTEM
(114 PP)
GUSTAFSON, R.
NAO20-A251
REMARKS: REF RPT 10-U01245

DAVID M. TAYLOR NAVAL SHIP R&D CENTER 10-007151 F
(U) TRIALS PLAN-AGM-1 DESIGN AND INSTALLATION OF A
NEW HYDRAULIC SYSTEM
OCT 72 RELEV 5
HY081-A278C
REMARKS: BOEING REPORT (WTA 1107-78-008A). REPORT
DUE AFTER DEACTIVATION OF AGM-1

DAVID M. TAYLOR NAVAL SHIP R&D CENTER 10-007268 F
(U) POST DELIVERY MISCELLANEOUS HYDRAULIC SYSTEM
REPAIR AND MODIFICATION TO PLAINVIEW (AGM-1)(17
PP)
HARTRAN, E.
HYSTU PLAN NAO08C-A135
AUG 73 RELEV 7

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR

PAGE 4

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - AUXILIARY SYSTEMS

QUERY-PART NO. MNNO01

OCT 17 1978

DOCUMENT NUMBER

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-HYDROFOIL UNDERWAY REPLENISHMENT
STATION KEEPING WITH ELECTRONIC DEVICES
JULY 74 RELLEV 5
HY089-M316

REMARKS: TRIAL INCONCLUSIVE. NO REPORT RELEASED

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) SUMMARY OF HYDROFOIL TRIALS PLANNING WORKSHOP
HELD JUNE 12-13 1974 SEPT 74 RELLEV 4
LTR 115:DOC:9080 OF 10 SE

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL 1 & VOL II
(U) JUNE '73 RELLEV 1
TN-SDD-115-18
REMARKS: REF DB/NO 10-S00168

GRUMMAN AEROSPACE CORP.
(U) PROCUREMENT SPECIFICATION SERVO ACTUATORS,
ELECTRO-HYDRAULIC FOR FORWARD FOIL INCIDENCE
CONTROL SYSTEM PLAINVIEW AG(EH)-1
DEC 72 RELLEV 4
SPEC. 71B-901-3
M00006-72-C-0729
REMARKS: REF TRIALS PLAN HY087-A288 (10-U07156)

GRUMMAN AEROSPACE CORP.
(U) DETAILED DESIGN OF AG(EH) FORWARD FOIL FLAP
CONTROL SYSTEM
APR 73 RELLEV 3
RPT 71B-901-6
M00006-72-C-0729
REMARKS: REF TRIALS PLAN HY087-A288 (10-U07156)

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - AUXILIARY SYSTEMS

QUERY-PART NO. MNNO01

OCT 17 1978

DOCUMENT NUMBER

OPTRUMAN AEROSPACE CORP.
(U) USE OF PLATINUM (AQM/H) TO EVALUATE ACTIVE
PASSIVE RELIABLE ACOUSTIC PATH SONAR (APRAPS)
SYSTEM (42 PP)

SYSTEM (42 PP)
FEB 76 RELEV 8
MAR 298-070-1
NO0600-76-C-0248

REMARKS: SEE COMMENTS ATTACHED TO BACK COVER

10-U07755LM

NAVAL ELECTRONICS LABORATORY CENTER
(U) TRIALS PLAN-PCB-1 REPLENISHMENT AT SEA (11 PP)
BERESFORD, D. K. JAN 72 RELEV 7
NS027-D228

REMARKS: NO REPORT RELEASED

NAVAL SEA SYSTEMS COMMAND
(U) PRE-PROTOTYPE ADVANCED CRAFT FUELING BOOM-FINAL
TEST REPORT

DAW, R.

MONG, E.

WAGNER, J.

TP-18-73

AD9100007L

10-U07189 F

PULSCO LABORATORIES
(U) PRESSURE PULSATION AND SURGE MEASUREMENTS ON THE
PORT PRESSURE FLIGHT HYDRAULIC SYSTEM OF THE
HYDROFOIL RESEARCH SHIP AQ(MH)-1
MORRIS, R. P. JAN 72 RELEV 4
R-370

NO060-82-C-0905
REMARKS: ALSO SEE ANALOG STUDY PULSCO RPT A-158, DB
NO 10-U1395

10-U05488 M

PULSCO LABORATORIES
(U) PRESSURE PULSATION AND SURGE MEASUREMENTS ON THE
PORT PRESSURE FLIGHT HYDRAULIC SYSTEM OF THE
HYDROFOIL RESEARCH SHIP AQ(MH)-1
MORRIS, R. P. JAN 72 RELEV 4
R-370

NO060-82-C-0905
REMARKS: ALSO SEE ANALOG STUDY PULSCO RPT A-158, DB
NO 10-U1395

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10-U05053 M

CONTROLS

..~~SECRET~~..

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - CONTROLS

QUERY-PART NO. WING003

OCT 17 1978

DOCUMENT
NUMBER

BOEING CO.
(U) CHARGING AND MONITORING OF THE LOAD COMPENSATOR
FOR FORWARD FOIL ACTUATION SYSTEM-AGEM-1
COLEMAN, J.T.
TN-A-3
NO0600-69-C-0618
REMARKS: REVISION B

10-U02151 M

BOEING CO.
(U) TRIALS PLAN-AGEM-1 SIX DEGREE OF FREEDOM DIGITAL
SIMULATION OF THE FOILBORNE (6 PP)
JAN 73 RELEV S

BE206-A285

REMARKS: REF RPTS 10-U05491

BOEING CO.
(U) TRIALS REPORT ON DYNAMIC CHARACTERIZATION
READINESS (AGEM-1)
BENZ, R. C.
FARRIS, J. E.
TN-A-12
NO0600-69-C-0618
REMARKS: REF TRIALS PLAN BE181-A256 (10-U06949)

10-U02931 M

BOEING CO.
(U) TRIALS PLAN-AGEM-1 FOILBORNE EMERGENCY
PROCEDURES(16 PP)
FEB 73 RELEV S

BE133A-A286

REMARKS: REF. RPTS. 10-U02156(TN-A-9)

BOEING CO.
(U) TRIALS PLAN-AGEM-1 DYNAMIC CHARACTERIZATION
READINESS (38 PP)
FEB 73 RELEV S

BE181-A256

REMARKS: REF RPTS 10-U02931 (TN-A-12)

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - CONTROLS

QUERY-PART NO. WNK003

OCT 17 1978

DOCUMENT NUMBER

BOEING CO.
(U) PLAINVIEW SHIP MOTIONS AND ACS OP-RATION
FOLLOWING THE STARBOARD FOIL INCIDENCE CONTROL
LINKAGE FAILURE

COLEMAN, J.T. MAR 73 RELEV 2
TH-A-15
NO0600-69-C-0618

REMARKS: ALSO SEE NSRDC MEMO, DS NO. 10-U2263

10-U01911 M

BOEING CO.
(U) TRIALS PLAN-AGEN-1 AUTOMATIC CONTROL SYSTEM
MODIFICATION (19 PP)

MAY 73 RELEV 7

BE153A-A293
REMARKS: CANCELLED. EQUIPMENT MODIFIED. NO REPORT
REQUIRED

10-U06923 F

BOEING CO.
(U) TRIALS PLAN-PCH-1 AUTOMATIC CONTROL SYSTEM
CONFIGURATION LOG (20 PP)

SEPT 73 RELEV 7

BE215B-P304
REMARKS: EQUIPMENT CONFIGURATION CONTROL. NO RPT
REQUIRED

10-U06974 F

BOEING CO.
(U) EQUATIONS FOR AND RESULTS FROM THE DIGITAL
SIMULATION OF THE FOILBORNE AGH-1

HADAMS, P.J. JAN 74 RELEV 4

D319-S-5500

NO0600-69-C-0618

REMARKS: REF TRIALS PLAN BE206-A285 (10-U06967)

10-U069491 M

BOEING CO.
(U) EQUATIONS FOR AND RESULTS FROM THE DIGITAL
SIMULATION OF THE FOILBORNE AGH-1

HADAMS, P.J. JAN 74 RELEV 4

D319-S-5500

NO0600-69-C-0618

REMARKS: REF TRIALS PLAN BE206-A285 (10-U06967)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - CONTROLS

QUERY-PART NO. MNN0003

OCT 17 1978

DOCUMENT NUMBER

10-U05121 M

BOEING CO.
(U) SHIP BEHAVIOR DURING HARPOON/HYDROFOIL
COMPATIBILITY TESTS ON HIGH POINT (PCH-1)

MAR 74 RELEV 4

LTR 2-1524-1000-1192

N00600-69-C-0618

REMARKS: REF TRIALS PLAN CNW045-P305 (10-U07247)

10-U09818

BOEING CO.
(U) PCH-1 MOD-1 TRIM, TURNING & STEP RESPONSE
CHARACTERISTICS-DEFINITIVE CHARACTERISTICS
FOILBORNE (16 PP)

APR 74 RELEV 4

2-1524-1000-1233

N00600-69-C-0618

REMARKS: REF-TRIALS PLAN-KB042B-P290 (10-U07241)

10-U09829

BOEING CO.
(U) RECOMMENDED OPERATING MODES FOR MUADAP
INSTALLATION ON PLAINVIEW (AGEH-11) (20 PP)

JUNE 75 RELEV 4

2-1524-1-1506

N00600-75-C-1107

REMARKS: REF-MTA 1107-75-015A

10-U09831

BOEING CO.
(U) AGEH-1 AUTOMATIC CONTROL SYSTEM (PACS)
MALFUNCTION HISTORY (12 PP)

JAN 78 RELEV 4

H-7308-1000-2036

N00600-75-C-1107

REMARKS: REF. MTA 1107-77-0204

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - CONTROLS

QUERY-PART NO. NHO003

OCT 17 1978

DOCUMENT
NUMBER

10-U02401LM

CHARLES STARK DRAPER LABORATORY
(HUDAP)-PHASE 1 FINAL REPORT

DOGAN, P.P.

GAMBER, F.S.

DECANIO, F.T.

RPT-745

N00014-87-A-0204-0060

AD0003572

REMARKS: REF. TRIALS PLAN NHO64-P328(10-U07258)

CHARLES STARK DRAPER LABORATORY
(U) HYDROFOIL UNIVERSAL DIGITAL AUTOPilot

(HUDAP) PHASE II-FINAL REPORT

GAMBER, F.S.

MEDEIROS, R.

R-817

N00014-74-C-0009

ADA005523

REMARKS: REF TRIALS PLAN NHO558-P306 (10-U07250)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER

(U) TRIALS PLAN-PCH-1 AND AGE-1 DEFINITION AND
DEMONSTRATION OF INTERFACE BETWEEN (HUDAP)

DIGITAL AUTOPilot AND HYDROFOILS (6 PP)

O'NEILL, W.C.

NHO41-4277

REMARKS: CANCELLED-NQ REPORT WRITTEN

DAVID W. TAYLOR NAVAL SHIP R&D CENTER

(U) TRIALS PLAN-PCH-1/AGE-1 EVALUATION OF HEIGHT
SENSOR IN SEA SPARRON MISSILE ENVIRONMENT (6 PP)

MUSCUS, P.V.

NHO44-4283

REMARKS: REF RPT 10-U07073

10-U05534 M

10-U07240 F

10-U07242 F

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - CONTROLS

QUERY-PART NO. WNW003

OCT 17 1978

DOCUMENT NUMBER

10-U05561 F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) PCMH-1 HARPOON TECHNICAL TRIALS, RELATED
CORRESPONDENCE AND MISCELLANEOUS DATA

RELEVE 5
REF TRIALS PLAN NW051A-P302 (10-U07247)

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) FAILURE OF PLANE INVIEW (AGEMH-1) STARBOARD FOIL
INCIDENCE LINK. 11 DECEMBER 1972
TARNALL, P. MAR 73 RELEVE 2

MEND 73-173-HM98
REMARKS: COMPREHENSIVE DESCRIPTION OF THE FAILURE
AND HULL IMPACT. SEE DB NO. 10-U01911

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCMH-1 HARPOON HEIGHT SENSOR
COMPATIBILITY EVALUATION (23 PP)
SAKTON, F.N.
RUSCUS, P.V.

AUG 73 RELEVE 5

NW050A-P302
REF REPORTS 10-U05438, 10-U05121,
10-U05561, AND 10-U05436

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCMH-1 EVALUATION OF HYDROFOIL DIGITAL
AUTOPilot (HUDAP) (30 PP)
O'NEILL, W.C.

NOV 73 RELEVE 5

NW0558-P306
REF RPT 10-U05534

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-HYDROFOIL SUNOSTRAND AHY-6 RADAR
ALTIMETER-HEIGHT SENSOR EVALUATION
MAY 74 RELEVE 5

HY093-H325
HY104-H341
REMARKS: REPORT TO BE RELEASED. SEE TRIALS PLAN

10-U07247 F

10-U02263 M

10-U07250 F

10-U07161 F

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HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - CONTROLS

QUERY-PART NO. WHR003

OCT 17 1978

DOCUMENT NUMBER

10-U07258 F

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCB-1 EVALUATION OF SEPT. 1974
HYDROFOIL DIGITAL AUTOPilot (HUDAP) CONFIGURATION
(130 PP)
O'NEILL, W.C.
NHO648-328
REMARKS: REF. RPT. DRAPER LAB-R745(10-U02401)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) FATIGUE LOADS FOR PHM CONTROL LINKAGES (120 PP)
BUCKLEY, W.H.
SEPT 74 RELLEV 2
74-173-4187

REMARKS: LOADS ARE DERIVED FROM ANALYSIS OF PCB MOD-
1 TRIALS DATA

10-U05684LM

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCB-1 HYDAP TESTS-EFFECTS OF VARING
GAIN ON HULLBORNE MOTION (123 PP)
O'NEILL, W.C.
NHO608-3317
REMARKS: NO REPORT RELEASED

10-U07254 F

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) EFFECT OF MISSILE LAUNCH BLAST ON ACOUSTIC AND
RADAR HEIGHT SENSORS (17 PP)
RUSCUS, P.V.
SAXTON, F.M.
T&E-SDD-11-0-18
ABD006846
REMARKS: REF TRIALS PLAN NHO44-H283 (10-U07242)

10-U07073LM

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HYDROFOIL R AND D TRIAL DOCUMENTATION SUMMARY
TECHNICAL - CONTROLS

QUERY-PART NO. MHN003

OCT 17 1978

DOCUMENT
NUMBER

DAVID M. TAYLOR NAVAL SHIP RAD CENTER 10-U07465 M
(U) POSSIBLE INTERACTION BETWEEN PHM-1, MOD 1 AFT
FOIL SYSTEM VIBRATION MODE AND AUTOMATIC CONTROL
SYSTEM (6 PP)
BUCKLEY, W.
NOV 75 RELEV 4
MEMO 75-173-M164

DAVID M. TAYLOR NAVAL SHIP RAD CENTER 10-U08605 LM
(U) BACKGROUND INFORMATION RELATIVE TO RECOMMENDED
SERVICE LIFE PLAN FOR PHM-3 CLASS HYDROFOIL SHIPS
AND IMPLICATIONS RELATIVE TO LONG TERM STRUCTURAL
INITIATIVES
BUCKLEY, W.H.
NOV 76 RELEV 2
REMARKS: A GOOD REVIEW OF STRUCTURAL LESSONS LEARNED
AND A SUMMARY OF PHM-1 STRUCTURAL CRACKS.

DAVID M. TAYLOR NAVAL SHIP RAD CENTER 10-U08875 M
(U) PLAINVIEW (AGEH-1) TECH. TRIALS LOG PACKAGES FOR
THE PERIOD OF 17 MAY 1977 VOYAGE NO.
N-9, N-10, N-11, N-12, & N-13 (38 PP)
MAY 77 RELEV 5

GRUMMAN AEROSPACE CORP. 10-U05055 M
(U) PROCUREMENT SPECIFICATION SERVO ACTUATORS.
ELECTRO-HYDRAULIC FOR FORWARD FOIL INCIDENCE
CONTROL SYSTEM PLAINVIEW AGEH-1
DEC 72 RELEV 4
SPEC. 716-901-3
N00008-72-C-0729
REMARKS: REF TRIALS PLAN MTO87-4288 (10-U07158)

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systems

SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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R AND D TRIALS DOCUMENTATION SUMMARY
HYDROFOILS TECHNICAL - STRUT AND FOIL

QUERY-FPART NO. MN0004

OCT 17 1978

DOCUMENT
NUMBER

10-U06957 F

BOEING CO.
(U) STANDARD FOIL SYSTEM SURFACE/PROPELLER
INSPECTIONS-AGEH-1 CANCELLATION OF (6 PP)
MAY 72 RELEV 7
MYSTU PLAN PER:an-ale

10-U04822 N

BOEING CO.
(U) HYDROFOIL CRAFT STRUCTURAL CRITERIA-RELATED
EXPERIENCE
COHN, R.
FRENCH, M.
WATSON, F.

APR 72 RELEV 1

0221-11000-2

N00600-71-C-0556

REMARKS: FOR RECOMMENDATIONS FOR CRITERIA
DEVELOPMENT. SEE BOEING DOC. D221-11000-3
(DB/NO. UO-4820) CURRENTLY UNDER NAVY REVIEW.

10-U06954 F

BOEING CO.
(U) TRIALS PLAN-AGEH-1 FORWARD FOIL INCIDENCE CONTROL
LINKAGE COMPLIANCE MEASUREMENT (11 PP)
MAY 72 RELEV 7
BE187-A265

REMARKS: NO REPORT REQUIRED (CANCELED)

10-U01898 F

BOEING CO.
(U) STATUS OF SPRAY SHIELD EVALUATION AND
HYDRODYNAMIC OBSERVATIONS. INTERIM REPORT
REIG, D.
LTR-21508-1000-448
N00600-69-C-0618
REMARKS: REF TRIALS PLAN HY07B-A274 (10-U07148) NO
FINAL REPORT EVER RELEASED

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. MNH004

OCT 17 1978

DOCUMENT
NUMBER

BOEING CO.
(U) SEARCH FOR STRUCTURALLY SIGNIFICANT SMOOTH WATER

MANEUVERS ON PCH MOD-3 (6 PP)

AUG '72 RELEV 5

LTR-2-1506-1000-886

N00600-69-C-0613

REMARKS: LIST OF TAPES AND TIMES WHERE EXTREME
MANEUVERS WERE EXPERIENCED. ALSO SUMMARY OF
4/30/68 LOG IMPACT

BOEING CO.
(U) MAIN STRUT EXTENSION/RETRACTION SYSTEM TEST

RESULTS

JAN 73 RELEV 5

SORENSEN, D.

LTR 2-1524-1000-835

N00600-69-C-0618

REMARKS: INSUFFICIENT AND INCOMPLETE ANALYSIS AND
DOCUMENTATION

BOEING CO.
(U) STRUCTURAL INSPECTION-AGEH-1 PLAINVIEW PRE-ROUGH
WATER TESTING (1972) (MST) PLAN BE129-A197

JAN 73 RELEV 4

LTR 2-1524-1000-827

N00600-69-C-0618

REMARKS: ALSO SEE NSRDC MEMO, JS NO. 10-U2263
10-U01911 M
(U) PLAINVIEW SHIP MOTIONS AND ACS OPERATION
FOLLOWING THE STARBOARD FOIL INCIDENCE CONTROL
LINKAGE FAILURE
COLEMAN, J.T. MAR 73 RELEV 2
TN-A-15

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

GUITAR-PART NO. MNN004

OCT 17 1978

DOCUMENT NUMBER

BOEING CO.
(U) AGEM-1, AFT STRUT STRUCTURAL REVIEW, STATION 75
TO 125
ROUND. D.H.
LTR 2-1524-1000-961
NO0600-69-C-0618

10-U02629 W

BOEING CO.
(U) DIFFERENCES BETWEEN PREDICTED AND ACTUAL
DIRECTIONAL STABILITY AND FLAT TURNING
CHARACTERISTICS
THOMASSON, R.E.
PIEG, D.F.

JUNE 73 RELEV 2
TN-A-11
NO0600-69-C-0618

REMARKS: REF TRIALS PLAN BE132A-A241 (10-U06824)

BOEING CO.
(U) INCIDENCE CONTROL ROD LOADS AND FOIL ANGLE
DISPLACEMENTS PLAINVIEW. AGEM-1
ROUND. D.H.
YOUNGSTROM, W.R.
LTR 2-1524-1000-1074
NO0600-69-C-0618

AUG 73 RELEV 4

REMARKS: REF. HYSTU WTA NO. 0610-73-068A

BOEING CO.
(U) STRUCTURAL MONITORING REQUIREMENTS FOIL AND STRUT
INSTRUMENTATION SYSTEM HIGH POINT PCH-1 (MOD 1)15
NOV 1973
ROUND. D.H.
LTR 2-1524-1000-1133
NO0600-69-C-0618

REMARKS: REVISED

10-U02769 W

BOEING CO.
(U) STRUCTURAL MONITORING REQUIREMENTS FOIL AND STRUT
INSTRUMENTATION SYSTEM HIGH POINT PCH-1 (MOD 1)15
NOV 1973
ROUND. D.H.
LTR 2-1524-1000-1133
NO0600-69-C-0618

NOV 73 RELEV 5

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10-U02867 F

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HYDROFOIL K AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. WNN004

OCT 17 1978

DOCUMENT NUMBER

10-005037 N

BOEING CO.
(U) AGEM-1 PLAINVIEW. RESULTS OF PRE-ROUGH WATER
TRIALS. PART A

CHANG, F.
TN-A-14
NO600-69-C-0618

REMARKS: REF TRIALS PLAN BE152A-A273 (10-U06922)

10-U15121 N

BOEING CO.
(U) SHIP BEHAVIOR DURING HARMON/HYDROfoil
COMPATIBILITY TESTS ON HIGH POINT (PCH-1)

CHANG, F.
LTR 2-1524 -1000-1192
NO600-69-C-0618

REMARKS: REF TRIALS PLAN CNW045-P305 (10-U07247)

10-U05469 F

BOEING CO.
(U) BOEING RECOMMENDED ITEMS FOR NSRDC WORKSHOP (JUNE
1974)

JUNE 74 RELEV 5

10-U05711 N

BOEING CO.
(U) LATERAL BENDING MOMENT LOADS AND RUDDER TORQUES
AFT STRUT. PLAINVIEW (AGEM-1). 1 AND 9 NOVEMBER
1972 (39 pp)

ROHMO, D.H.
LTR 2-1524-1000-1333
NO600-69-C-0618

REMARKS: REF TRIALS PLAN BE159A-A279 (10-U06961).
CONTAINS DATA ON CYCLIC LOAD MEASUREMENTS
OBTAINED IN SEA STATE 3.

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

PAGE 5

SEARCH FOR

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. MNNG004

DOCUMENT
NUMBER

OCT 17 1978

BOEING CO.
(U) AFT NACELLE CRACKS, HIGH POINT (PCH-1)
RAV (136 PP)
ROUND, D.H.
LTR 2-1524-1000-1448
N003600-75-N-5007

10-006245 M
274-1975
MAR 75 RELEV 2

BOEING CO.
(U) INVESTIGATIONS OF BOLTS FROM PCH-1 MOD-1 (114 PP)
ROBERTS, E.C.
METAL LAB RPT-5057

10-005756 M
APR 75 RELEV 4

BOEING CO.
(U) WORK AND ANALYSIS PLAN FOR HYDROFOIL LOADS
CRITERIA SUPPORT-HIGH POINT (PCH-1) MOD 1: REPORT
NO. 3 LOADING INCIDENTS-ROUGH WATER TRIALS. NOV-
DEC 1975 (125 PP)
ROUND, D.H.
LTR H-7308-1000-1706
N003600-75-C-1107
REMARKS: A TABULATION OF HIGH OR UNUSUAL LOADING
INCIDENTS DURING THE ROUGH WATER TRIALS OF PCH.

10-007354 M
NOV 75 RELEV 5

BOEING CO.
(U) HYDROFOIL COATINGS LOG (34 PP)
MARTIN, D.W.
D324-51306-1
N00167-76-N-8241
REMARKS: AN IMPORTANT SUMMARY OF THE HISTORY OF
COATING PERFORMANCE ON U. S. HYDROFOILS-HULL,
FOILS, STRUTS.

10-008973LM

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AD-A102 138

WHEELER INDUSTRIES INC WASHINGTON D C
ADVANCED HYDROFOIL DEVELOPMENT TRIALS PROGRAM DOCUMENTATION REV--ETC(U)
OCT 78

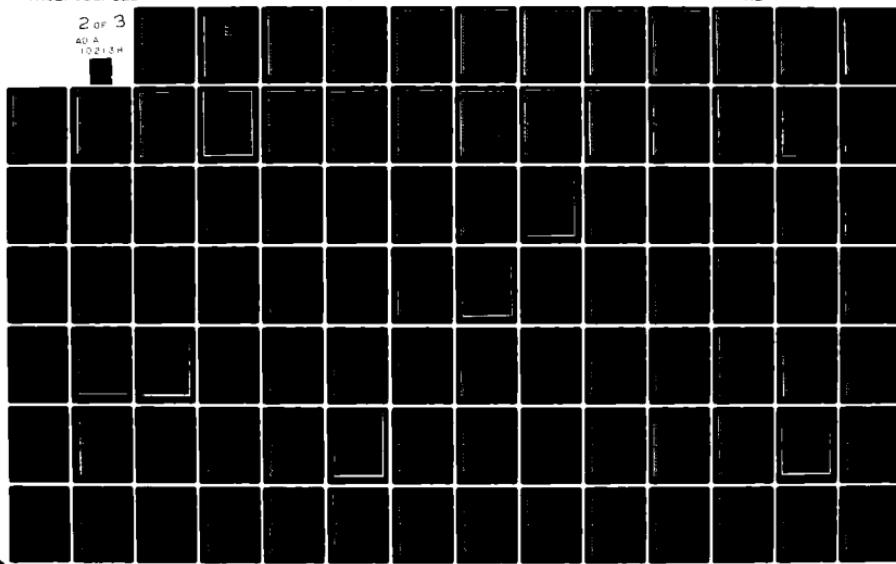
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N00600-75-D-0799

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 6

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. MN0004

OCT 17 1978

DOCUMENT NUMBER

BOEING CO. 10-U09953

(U) ANALYSIS OF PEGASUS (PMB-11) AND HIGH POINT (PCH-1)

HOOD-11 FOIL CAVITATION AND CANCELLATION (33 PP)

OCT 76 RELEV 4

H-7520-7504-013

H00024-13-C-0357

REMARKS: REF TRIAL PLAN MN076-P334 (10-U09837)

10-C00974 N

BOLT BEARAK AND NEWMAN, INC. (U) MODEL AND SILENCING PROGRAM FOR UNDERWATER

RADIATED NOISE FROM HYDROFOIL CRAFT (U) (107 PP)

SABULIN, J.

JAN 73 RELEV 4

GODOS, C.

RPT-2496

H00600-72-C-0390

REMARKS: DRAFT

10-U02401LN

CHARLES STARK DRAPER LABORATORY (U) HYDROFOIL UNIVERSAL DIGITAL AUTOPilot

(HUDAP)-PHASE I FINAL REPORT

DOGAN, P.P.

GABBER, F.S.

DECANIO, P.T.

RPT-745

H-0014-07-A-0204-0060

AD80015572

REMARKS: REF. TRIALS PLAN NH064-P328(10-U07250)

10-UC7145 F

DAVID M. TAYLOR NAVAL SHIP RAD CENTER (U) TRIALS PLAN-AGC-1 MAIN STRUT REVIRING AND

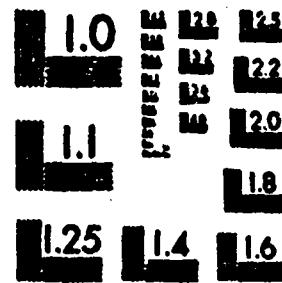
STRUT/FOIL STRUT GATING (8 PP)

JUNE 72 RELEV 1

H-075-4386

REMARKS: EQUIPMENT INSTALLED-HD REPORT REQUIRED

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MICROSCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1953-A

SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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SEARCH FOR
HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. 100004

OCT 17 1978

DOCUMENT
NUMBER

DAVID W. TAYLOR NAVAL SHIP AND CENTER
(U) TRIALS PLAN-AECH-1 DESIGN AND INSTALLATION OF
INSTALLATION OF LENGTHENED/STRENGTHENED HY-130
PERMANENT STRUT SPRAY FENCES (15 pp)
AUG 72 RELEV 7
HY079A-A274
REMARKS: REF NPTS 10-001886 (FENCES WERE LATER
REMOVED). NO FINAL REPORT RELEASED.

10-007148 F

DAVID W. TAYLOR NAVAL SHIP AND CENTER
(U) TRIALS PLAN-AECH-1 DESIGN FABRICATION AND
INSTALLATION OF LENGTHENED/STRENGTHENED HY-130
TAIL STRUT (9 pp)
AUG 72 RELEV 8
HY079A-A276
REMARKS: SEE GERMAN DESIGN AND CONSTRUCTION
DOCUMENTATION

10-007148 M

DAVID W. TAYLOR NAVAL SHIP AND CENTER
(U) MEASUREMENT OF AGEN STRUT-OIL AND HULL DYNAMIC
CHARACTERISTICS BY "PLUCK" TEST
PEOPLES, J.R.
TAC-SAD-13E-1986
REMARKS: PROVIDES VERIFICATION OF ANALYTICAL AND
EXPERIMENTAL TECHNIQUES

10-001441M

DAVID W. TAYLOR NAVAL SHIP AND CENTER
(U) HYDRODYNAMIC AND STRUCTURAL PARAMETERS FOR
T-FOILS ON SIX FULL-SCALE HYDROFOIL CRAFT
BESCH, P.H.
TH-SPD-246
REMARKS: PHM DATA OUT OF DATE AS OF 02/73

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PAGE 8

HYDROFOIL S AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. NY0004

OCT 17 1978

DOCUMENT
NUMBER

10-U02263 M

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(u) FAILURE OF PLATINUM (AGE=11) STARBOARD FOIL
INCIDENCE LINK. 11 DECEMBER 1972

TAMMALL, P.
NEDO 73-173-3288
REMARKS: COMPREHENSIVE DESCRIPTION OF THE FAILURE

AND HULL IMPACT. SEE DO NO. 10-U01911.

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(u) TRIALS PLAN-AGE=1 FLAP CONTROL SYSTEM (8 PPI
APR 73 RELAY 5

NY007-A288
REMARKS: REP RPTS 10-U05981, 10-U05985, 10-U02390,
10-U02201 AND 10-U02407

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(u) SERVICE EXPERIENCE OF STRUT AND FOIL DAMAGE ON
NAVY HYDROFOILS (9 PP)

RABEL, C.R.
NEDO MF-114/ 9506-1 GEN
REMARKS: INFORMAL SUMMARY OF DEBRIS IMPACTS. NOT A
COMPREHENSIVE TREATMENT

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(u) TRIALS PLAN-PCH=1 NOD-1 CALM WATER STRUCTURAL
TESTS (27 PP)

BUCKLEY, W.H.
NEDO 9-P204
REMARKS: REP RPTS 10-U05948, 10-U08394, 10-U05847,
AND 10-U05118

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(u) TRIALS PLAN-COATING SYSTEM STUDIES FOR THE
CORROSION PROTECTION OF NY-130 STEEL (27 PP)

NY091-H003
REMARKS: REP RPT 10-U06617

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SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 9

HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO.: WNO004

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-002802 F
(U) RESULTS OF INSPECTION OF AGM-1 PLAINVIEW STRUTS
AND FOILS, DURING SEPTEMBER 17-21, 1973
JOHNSON, G.E.
OCT 23 RELEV 5
NEDO CODE-173-2

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-005028 N
(U) HIGH POINT: PCH-1 NDO 1 DEBRIS AVOIDANCE INCIDENT
ON 5 DECEMBER 1973
YARNALL, P.
FEB 74 RELEV 4
NEDO CODE-173-3

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-004998 L
(U) RESULTS OF VISIT TO MYSTI, BOEING NAVAL SYSTEMS
DIVISION AND PRELIMINARY RESULTS OF PCH-1 NDO 1
CALM WATER STRUCTURAL TRIALS, FEBRUARY 20-26,
1974
BUCKLEY, V.H.
MAR 74 RELEV 5
NEDO CODE-173-2

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-005048 N
(U) ADEQUACY OF PCH-1 NDO 1 FORWARD STRUT DESIGN
LOADS
BUCKLEY, V.H.
APR 74 RELEV 2
REMARKS: REF TRIALS PLAN NEDO49-2294 (10-007245)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-005118 N
(U) PRELIMINARY RESULTS OF PCH-1 NDO 1 ROUGH WATER
TRIALS (STRUCTURAL DATA)
BUCKLEY, V.H.
APR 74 RELEV 4
74-173-302

REMARKS: REF TRIALS PLAN NEDO49-2210 (10-007249).
NEDO ALSO REVIEWS STRUCTURAL DETAILS OF NDO-1
CONTROL SYSTEM

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERT-POINT NO. 00004

OCT 17 1978

DOCUMENT NUMBER

10-005110 F

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(u) PCN-1 MOD 1 KING POST DRAG BENDING
YANHALL, P.
WEDO 1731PV 74-173-866
REMARKS: DESCRIBES DETAILS OF PCN-2 KING POST
STRUCTURAL CRACKS AND FAILURE

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(u) FOIL FLAP VIBRATIONS ON HIGH POINT, PCN-1 MOD 1
YANHALL, P.
74-173-864

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(u) USS PLAINVIEW (AGOR-11) PRELIMINARY VIBRATION
STUDIES-NEP TRIALS PLAN NW031-A231 (10-007231)
SCHAUER, H.E.
TAE-SAD-PBE-1968

REMARKS: WELL DONE STUDY WHICH COMPARES FULL-SCALE
AND ANALYTICAL PREDICTIONS FOR MULL AND FOIL
SYSTEM VIBRATIONAL CHARACTERISTICS AND STRUT
FLUTTER SPEEDS. COMPARISON WITH MIL STD 1678 AND
HUMAN VIBRATION TOLERANCES LEVELS ARE ALSO MADE

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(u) HYDROELASTIC DESIGN OF SUBCAVITATING AND
CAVITATING HYDROFOIL STRUT SYSTEMS
BESCH, P.R.
LTU, V.
APR-4257

AD780776
REMARKS: PRESENTS DESIGN PROCEDURES AND PARAMETRIC
TRENDS THAT CAN BE USED TO AVOID FLUTTER AND
DIVERGENCE IN HYDROFOIL STRUT-FLUTTER SYSTEMS. A
GOOD SUMMARY OF HYDROELASTIC RESEARCH THAT IS
APPLICABLE TO THE DESIGNER

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HYDROFOIL II AND D TRIALS DOCUMENTATION SUMMARY

TECHNICAL - STRUT AND FOIL

QUERY-PART NO. WNO004

OCT 17 1970

DOCUMENT

NUMBER

10-U05532 M

10-U07298 F

10-U07257 F

10-U03684 LM

10-U03770 M

10-U03771 M

10-U03772 M

10-U03773 M

10-U03774 M

10-U03775 M

10-U03776 M

10-U03777 M

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10-U04026 M

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SWAMP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 12

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. 000004

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIP REPORT TO MYSTY AND BOEING (RE: AGEM
FOIL/STRUT INSPECTION; PCP-1 AGEM-1 TRIALS SUMMARY
(21 pp)
YANNAI, P.
NOV 74 RELEV 8
JAD/74-173-321

10-U003451F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCP-1 FLAP EFFECTIVENESS-STATIC
DYNAMIC DURING MANEUVERS AND FOLLOWING BROACHING
(27 pp)
O'NEILL, W.C.
NOV 74 RELEV 8

10-U07259 F

REMARKS: NO REPORT RELEASED

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) RESULTS OF PRELIMINARY VIBRATION SURVEY OF PCP-1
PROPELLER GEAR BOX. NOV. 12-14, 1974 (13 pp)
YANNAI, P.
NOV 173/PY:JAD /74-173-41

10-U07268 N

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) MODIFICATION TO MYSTY PLANS DUE TO INCREASED
STRUCTURAL INSTRUMENTATION ON HIGH POINT (3 pp)
YANNAI, P.
NOV 173/PY:JAD /74-173-41

10-U00360 F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) HYDROFOIL DEFLUX IMPACT HISTORY (3 pp)
LTH 3000/MONO HP-21
MAR 75 RELEV 7

10-U00541

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SNAP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 13

HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY

QUEST-PART NO. 000004

**OCT 17 1978
DOCUMENT NUMBER**

**DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) PRELIMINARY RESULTS OF PCH-1 PROPELLER GEAR BOX
STRAIN MEASUREMENTS DURING POST NAV CHECKOUT
132117Z NOV 1978 (12/15/78)(118 PPI)
BUCKLEY, W.H.
75-173-009**

**DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) INSPECTION OF 055 HIGH POINT (PCH-1)STRUT FOIL
COATING ON 14 1978 (12 PPI) JULY 78 RELEV 4
RELLY, J.J.
MEMO 75-009
REMARKS: REF TRIALS PLAN HY091-44303 (10-U07159)**

**DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) NACELLE & FOIL SYSTEM BOLTS, REPLACEMENT OF (1
PP)
OCT 7 78 RELEV 4
75-173-0149
REMARKS: REF WTA 0610-75-013P**

**DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) POSSIBLE INTERACTION BETWEEN PCH-1, MOD 1-APT
FOIL SYSTEM VIBRATION MODE AND AUTOMATIC CONTROL
SYSTEM (8 PPI)
BUCKLEY, W.
MEMO 75-173-0164**

**10-066368 N
10-06617 N**

10-069822

**10-077468 N
10-077468 N
OCT 7 78 RELEV 4
NOV 78 RELEV 4**

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. MM0004

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) REPORT OF VISIT TO BOEING RENTON PLANT 10/28,
ATTENDANCE AT HYDROFOIL PROGRAM REVIEW 10/28 AND
10/29, AND VISIT TO NICKUR AND SPAULDING
ASSOCIATES 10/29 (4 PP)
BUCKLEY, W.
LTA-78-73-3102
NOV 78 RELEV 4
MM0000-78-C-1107

10-U07438 LM

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) REVIEW OF CONTRACTOR FATIGUE LOADS FOR UPPER END
OF PHM-1 / PHM-3 FORWARD STAB (16 PP)
BUCKLEY, W.
BEMD 79-173-117

10-U07438 LM

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) CHARACTERIZATION OF HYDROFOIL COATINGS ON THE
BASIS OF ADHESION STRENGTH & PROTON RESISTANCE
(16 PP)
BOHLANDER, G.S.
PREISEN, H.S.
RPT-78-0048
AD8011562

10-U07438 LM

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL I & VOL II
(U)

10-C9108 LM

JUNE 78 RELEV 1

TM-SDP-11B-18

REMARKS: REF DA/NO 10-800168

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL S AND D TRIALS DOCUMENTATION SUMMARY

QUART-PIAT NO. 590004

OCT 17 1978

DOCUMENT
NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) UNSTEADY LOADS ON PCN-1 MOD-1 AFTER FOIL SYSTEM
(113 pp)
GILL, D.E.
JUN 78 RELEV A
78-173-8107

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) REVIEW OF PCN-1 FOIL SYSTEM VIBRATION INFORMATION
FOR USE IN PREPARATION OF VIBRATION SURVEY TRIALS
PLAN (48 pp)
YARNALL,
AUG 78 RELEV S
LTR-78-173-8102

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PCN-1 MOD-1 CALM WATER TRIALS DATA FOR
TRANSMITTAL TO BOEING FOR COMPARISON WITH SIMILAR
PHN-1 DATA (63 pp)
SEPT 78 RELEV A
LTR-78-173-8123
REMARKS: DATA ON CALM WATER DEBRIS AVOIDANCE
MANEUVERS AND FORWARD FOIL BROACHES.

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PCN-1 MOD-1 CALM WATER TRIALS DATA FOR
TRANSMITTAL TO BOEING FOR COMPARISON WITH SIMILAR
PHN-1 DATA (63 pp)
GILL, D.E.
SEPT 78 RELEV A
LTR-78-173-8129
REMARKS: REF TRIALS PLAN 59049-P294 (16-007249)

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SEARCH FOR
HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. WIND004

DOCUMENT NUMBER

10-U08605LM

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) BACKGROUND INFORMATION RELATIVE TO RECOMMENDED
SERVICE LIFE PLAN FOR PHM-3 CLASS HYDROFOIL SHIPS
AND IMPLICATIONS RELATIVE TO LONG TERM STRUCTURAL
INITIATIVES
BUCKLEY, W.H.
MEMO 76-173-4146

REMARKS: A GOOD REVIEW OF STRUCTURAL LESSONS LEARNED
AND A SUMMARY OF PHM-1 STRUCTURAL CRACKS.

OCT 17 1978

10-U09837

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-CH-1 FORWARD FOIL CAVITATION
VERIFICATION TRIAL (INCLUDES AGENDA) (32 PP)
NOV 76 RELEV 5

MEMO 76-P334
REMARKS: RPT. DUE

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) RESULTS OF VISIT TO BOEING (NSD) 4/26-28 REVIEW
OF PHM-3 SERVICE LOADS & PCH-1 (ADCO-1) KING POST
PATIGUE ANALYSIS (8 PP)
BUCKLEY, W.H.
LTA-77-173-4099

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) CALM WATER RED LINE VALUES FOR AGEMH-1 MAIN FOIL
STRAIN GAGES (8 PP)
YARNAIL, P.
MEMO 77-173-4133
REMARKS: ALSO INCLUDES MEMO 77-173-4150 WHICH AMENDS
MEMO 77-173-4133.

10-U08606LM

JUNE 77 RELEV 4

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) IMPROVED SET OF PCH-1 NSD-1 FORWARD STRUT LOAD
CALIBRATION EQUATIONS (8 PP)
GILL, D.E.
MEMO 77-173-4174

10-U08606LM

AUG 77 RELEV 5

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SEARCH FOR
HYDROFOIL & AND A TRIALS DOCUMENTATION SUMMARY:

TECHNICAL - STRUT AND FOIL

QUERY-PART NO. MN000A

SEARCH FOR

DOCUMENT NUMBER

OCT 17 1978

DAVID N. TAYLOR NAVAL SHIP R&D CENTER
(U) REVIEW OF FLIGHT SAFETY REQUIREMENTS FOR
STRUCTURAL INSTRUMENTATION ON PLAINVIEW (AGEM-1)
(19 PP)
VARNALL, P.
MEND 77-173-0176

10-099542 N

OCT 17 1978

PAGE 17

RELEVE 4

DAVID N. TAYLOR NAVAL SHIP R&D CENTER
(U) COMMENTS ON HYSTU PLAN "TRAP COMPOSITE FOIL FLAP"
(2 PPI)
CHARACTERISTICS-PART A (182 PP)
VARNALL, P.
LTP-77-173-0213

10-099597 N

OCT 17 1978

PAGE 17

RELEVE 5

DAVID N. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-AGEM-1 CALM WATER FOIL LOAD
CHARACTERISTICS-PART A (182 PP)
SEACH, J.E.
NIO030-0227

10-097230 P

OCT 17 1978

PAGE 17

RELEVE 5

GRUMMAN AEROSPACE CORP.
(U) PROCUREMENT SPECIFICATION SERVO ACTUATORS,
ELECTRO-HYDRAULIC FOR FORWARD FOIL INCIDENT
CONTROL SYSTEM PLAINVIEW AG(EMH)-1
SPEC. 718-901-3
NOG408-72-C-0729

10-099555 N

OCT 17 1978

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RELEVE 4

GRUMMAN AEROSPACE CORP.
(U) ANALYSIS OF AG(EMH) PROTOTYPE FORWARD FOIL LIFT

AND WEIGHT DATA

WRIGHT, H.R.

NOTE AG-13

FEB 13 1979

PAGE 17

RELEVE 2

GRUMMAN AEROSPACE CORP.
(U) ANALYSIS OF AG(EMH) PROTOTYPE FORWARD FOIL LIFT
AND WEIGHT DATA
WRIGHT, H.R.
NOTE AG-13
FEB 13 1979
RELEVE 2

10-097312 N

OCT 17 1978

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RELEVE 3

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SEARCH FOR

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. SHRA004

OCT 17 1978

DOCUMENT
NUMBER

GRUMMAN AEROSPACE CORP.
 HYDRODYNAMIC PROFILE AG-14 AG(EM)INCIDENCE HINGE
 EXPONENTS
 WRIGHT, H.A.
 NOTE AG-14
 NO0014-71-C-0169

(U) PROPOSAL FOR AG(EM) AUTOMATIC CONTROL SYSTEM
 (AC) DESIGN FOR FLAP-CONTROLLED FOIL
 FEB 73 RELEV 4
 RPT 72-7741U
 REMARKS: REF TRIALS PLAN HY087-A288 (10-007156)

GRUMMAN AEROSPACE CORP.
 (U) AG(EM)-1 WEIGHT CHARGE SUMMARY-FLAP CONTROL
 SYSTEM
 MAR 73 RELEV 5
 RPT 718-001-5
 NO0408-72-C-0729

REMARKS: REF TRIALS PLAN HY087-A288 (10-007156)

GRUMMAN AEROSPACE CORP.
 (U) DETAILED DESIGN OF AG(EM) FORWARD FOIL FLAP
 CONTROL SYSTEM
 APR 73 RELEV 3
 RPT 718-001-6
 NO0408-72-C-0729

REMARKS: REF TRIALS PLAN HY087-A288 (10-007156)
 (U) VOLUMINOUS REPORT (6 INCHES THICK)

GRUMMAN AEROSPACE CORP.
 (U) AG(EM) FLAP LIFT CONTROL SYSTEM STRESS ANALYSIS
 APR 73 RELEV 3
 RPT 718-001-4
 NO0408-72-C-0729

REMARKS: REF TRIALS PLAN HY087-A288 (10-007156) - A
 (U) VOLUMINOUS REPORT (6 INCHES THICK)

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - STRUT AND FOIL

QUERY-PART NO. 18N004

OCT 17 1978

DOCUMENT NUMBER

BARE ISLAND NAVAL SHIPYARD 10-00091 8

(U) HYDROFOIL COATINGS PROJECT USS HIGH POINT (PCH-1)

FOIL INSPECTIONS AND REQUIRMENTS-SUMMARY

REPORT COVERING PERIOD 9/69-9/71

JUNE 72 RELLEV 3

1B-134-9-71

REMARKS: REF TRIALS PLAN NAO23-P102 (10-007276)

BARE ISLAND NAVAL SHIPYARD 10-001851 F

(U) COATING DEVELOPMENT FOR HYDROFOILS- PROGRESS

REPORT-MARCH 1973

MAR 73 RELLEV 5

LTR 134-9-54

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MATERIALS

SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 1

HYDROFOIL & DETAILED DOCUMENTATION SUMMARY
TECHNICAL - MATERIALS

QUARTERMASTER GEN. STORES

DOC# 17 1978

DOCUMENT NUMBER

10-000997 4

BOEING CO.
(U) STANDARD FOIL SYSTEM SURFACE/PROPELLER
INSPECTION REPORT-AGEN-1; CANCELLATION OF 16 PPI
HYSTU PLATE 86190-AC

10-002578 N
HYSTU PLATE 86190-AC
WATER TESTING (1972) HYSTU PLATE BE-126-A1971
JAN 73 RELEASE 4
LTR 2-1974-1000-027
H06000-86-C-0618

10-051991 N

BOEING CO.
(U) EXFOLIATION CORROSION INSPECTION REPORT, OUTER
SEAL/BOOT TOP AREA, PLAINVIEW, AGEN-1, 16 PPI
1973
LTR 2-1974-1000-027
H06000-86-C-0618

10-000245 N

BOEING CO.
(U) AIR MACHETE CRACKS, HIGH POINT (PCH-1), 1974-1975
PAV (36 PPI)
ROUND, D.H.
LTR 2-1974-1000-1448
H06000-73-B-5007

10-0578 N

BOEING CO.
(U) INVESTIGATIONS OF BOLTS FROM PCH-1 860-114 PPI
ROBERTS, E.C.
APR 75
RELEASE 4
METAL LOG MPT-3057

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - MATERIALS

QUERY-PART NO. MM6005

OCT 17 1978

DOCUMENT NUMBER

10-008973LM

DOC ID:

(U) HYDROFOIL COATINGS LOG (34 PP)

MARTIN, G.N.

0322-51368-1

NOV 067-78-4-8241

RELEV 2

REMARKS: AN IMPORTANT SUMMARY OF THE HISTORY OF
COATING PERFORMANCE ON U. S. HYDROFOILS-HULL,
FOILS, STRUTS.

10-008933 M

DOC ID:

(U) FATIGUE ANALYSIS OF THE PCFH-1 KING POST (45 PP)

ROUND, D.N.

RPT-6

MAR 77 RELEV 4

10-009028

DOC ID:

(U) FAILED AGFH-1 PROPELLER M & P METALLURICAL
LABORATORY SUPPORT (7 PP)

ROBERTS, E.

2-3618-0078-278

NOV00-78-C-1107

RELEV 4

REMARKS: REF-TMA-1107-77-010A & D/B NO. 10-009027

10-009027

DOC ID:

(U) AGFH-1 FAILED PROPELLER BLADE FATIGUE TEST
LABORATORY TEST REPORT (8 PP)

ROBERTS, E.

2-3618-0078-048

NOV00-78-C-1107

RELEV 4

REMARKS: REF-TMA-1107-77-010A-REV-1 & D/B NO.

10-009028

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SEARCH FOR

HYDROFOIL A AND B TRIALS DOCUMENTATION SUMMARY
TECHNICAL - MATERIALS

QUERY-PART NO. 10000005

OCT 17 1978
DOCUMENT
NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) REPORT OF EXAMINATION OF NON-METALLIX PIPING
AFTER 18 MONTHS OF SEA WATER SERVICE IN PCN-1
SCHAB, H.W. JAN 72 RELLEV 4
MEMO CODE-2707
REMARKS: REF TRIALS PLAN NAO07-P121

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCN-1 STUDY OF PRG AND GRP
PIPING/VALVES FOR SEAMASTER SYSTEMS (9 PP)
SCHAB, H.
JAN 72 RELLEV 5
NAO07-P121
REMARKS: REF REPORT 10-U01965

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCN-1 CONTINUATION OF DOCUMENTATION
AND REPORTING ON SELECTION, APPLICATION AND
PERFORMANCE OF PROTECTIVE COATINGS ON FOIL AND
PROPELLERS (4 PP)
BESFORD, G.
JUNE 72 RELLEV 7
NAO23-PI08
REMARKS: REF REP 10-U02091

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-AEGE-1 DESIGN FABRICATION AND
INSTALLATION OF LENGTHENED/STRENGTHENED HY-130
TAIL STRUT (9 PP)
AUG 72 RELLEV 9
HY079A-A276
REMARKS: SEE GRUMAN DESIGN AND CONSTRUCTION
DOCUMENTATION

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HIGHLIGHT R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - MATERIALS

QUART-PART NO. M0005 DOCUMENT NUMBER OCT 19 1978

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-AGH-1 IMPROVED FIRE FIGHTING SYSTEM
114 PPI
GUSTAFSON, R.
NA220-A281
REBARS: REF RPT 10-001235

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) FATIGUE DAMAGE SURVEY OF EXISTING HIGH
PERFORMANCE SURFACE SHIPS (14 PPI)
JOHNSON, R.E.
TN-30-173-236
10-005840 R

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIP REPORT-FIELD APPLICATION OF THREE CANDIDATE
NON-SLIP. DECK-COVERING SYSTEMS ON INTERIOR
ALUMINUM DECK OF USS PLAINVIEW AGH-1 AS
EXPERIMENTAL TEST PATCHES
DAYANG, S.H.
MEND CODE-2841SHD O
10-002412 R

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-COATING SYSTEM STUDIES FOR THE
CORROSION PROTECTION OF HY-130 STEEL (27 PPI)
SEPT 73 RELEV 5
HYDRI-4503
REBARS: REF RPT 10-006617

DAVID M. TAYLOR NAVAL SHIP RAD CENTER
(U) RESULTS OF INSPECTION OF AGH-1, PLAINVIEW STRUTS
AND FOILS, DURING SEPTEMBER 17-21, 1973
JOHNSON, R.E.
MEND CODE-173-2
10-002802 R

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - MATERIALS

QUERY-PART NO. MNO005

DOCUMENT NUMBER
OCT 17 1978

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PRELIMINARY RESULTS OF PCH-1 MOD 1 ROUGH WATER
TRAILS (STRUCTURAL DATA)
BUCHEY, M.M.
74-173-M62

REMARKS: REF TRIALS PLAN MNO0548-P310 (10-007249).
MEMO ALSO REVIEWS STRUCTURAL DETAILS OF NOC-1
CONTROL SYSTEM

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) INSPECTION TRIP TO U. S. NAVY HYDROFOIL
PLATINUM (AGEW-1112-14 OCT 1973 (TRIP REPORT)
JOHNSON, W.S.
LTR 74-173-99;173:WSU

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) COATINGS FOR PCH-1 HIGH POINT STAB/FOILS
HELLY, J.O.
MEMO COOG-8803

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) SUMMARY OF HYDROFOIL TRIALS PLANNING WORKSHOP
HELD JUNE 12-13 1974
SEPT 74
LTM 113:DOC:1980 OF 18 SE

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIP REPORT TO HISTU AND BOEING (REF: AGEN
FOIL/STRUCTURE INSPECTION:PCH-1 MOD-1 TRIALS SUMMARY
(21 PP)
YAPNALL, P.
JAD/74-173-M621

10-0053282 N
10-0053282 N
10-005845 N
10-006348LP

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - MATERIALS

QUERY-PART NO. M00005

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) INSPECTION OF USS HIGH POINT (PCN-11) STRUT FOIL
COATING ON 14 1975 (2 PP)
KELLY, J.J.
BENO 75-085
REMARKS: REF TRIALS PLAN HY001-H303 (110-007189)

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) NACELL & FOIL SYSTEM 80175, REPLACEMENT OF 11
PP
OCT 78 RELLEV 4
75-173-8149
REMARKS: REF WTA 0610-75-013P

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) REPORT OF VISIT 10. BOILING RENTON PLANT 10/26.
ATTENDANCE AT HYDROFOIL PROGRAM REVIEW 10/26 AND
10/29. AND VISIT TO NICKUM AND SPAULDING
ASSOCIATES 10/29 (4 PP)
BUCKLEY, W.
LTR-75-173-8162
H00600-75-C-1107

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) REVIEW OF CONTRACTOR FATIGUE LOADS FOR UPPER END
OF PHM-1/PHM-3 FORWARD STRUT (18 PPI)
FUCKLER, W.
DEC 78 RELLEV 4
BENO 75-173-177

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) REVIEW OF CONTRACTOR FATIGUE LOADS FOR UPPER END
OF PHM-1/PHM-3 FORWARD STRUT (18 PPI)
FUCKLER, W.
DEC 78 RELLEV 4
BENO 75-173-177

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) CHARACTERIZATION OF HYDROFOIL COATINGS ON THE
BASIS OF ADHESION STRENGTH & EROSION RESISTANCE
180 PPI
DOHLANDER, G.S.
PREISER, H.S.
APR 78 RELLEV 2
AP1-75-0048
AD0011563

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

HYDROFOIL R TECHNICAL - MATERIALS

QUERY-PART NO. SHM005

OCT 17 1978

DOCUMENT
NUMBER

DAVID B. TAYLOR NAVAL SHIP R&D CENTER 10-C01088LM
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL 1 & VOL II
(U)

JUNE 78 RELEV 1

TM-500-118-18
REMARKS: REF DB/DO 10-900188

DAVID B. TAYLOR NAVAL SHIP R&D CENTER 10-U00805LM
(U) BACKGROUND INFORMATION RELATIVE TO RECOMMENDED
SERVICE LIFE PLAN FOR PHM-3 CLASS HYDROFOIL SHIPS
AND IMPLICATIONS RELATIVE TO LONG TERM STRUCTURAL
INITIATIVES

BUCKLEY, W. H. NOV 78 RELEV 2
MEMO-78-173-8146

REMARKS: A GOOD REVIEW OF STRUCTURAL LESSONS LEARNED
AND A SUMMARY OF PHM-1 STRUCTURAL CRACKS.

MARINE ISLAND NAVAL SHIPYARD 10-U02091 M
(U) HYDROFOIL COATINGS PROJECT USS HIGH POINT (PCH-1)
FOIL INSPECTIONS AND REFURBISHMENTS-SUMMARY
REPORT COVERING PERIOD 9/69-9/71
JUNE 72 RELEV 3
TM-134.5-71

REMARKS: REF TRIALS PLAN MAC033-P102 (10-997276)

MARINE ISLAND NAVAL SHIPYARD 10-U01091 P
(U) COATING DEVELOPMENT FOR HYDROFOILS-PROGRESS
REPORT-MARCH 1973
MAR 73 RELEV 3
LTN 134.5-54

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
TECHNICAL - MATERIALS

QUERY-PART NO. 00000000000000000000000000000000

OCT 17 1978

DOCUMENT NUMBER

10-U02508 1

SPOETGENS (T. W.)
(U) REVIEW AND UPDATING OF PREVIOUS INTERIM REPORTS
AND CORRECTIVE MODIFICATION FOR TORSIONAL
VIBRATION PROBLEM HYDROFOIL PLATINUM (AGEH-1)
SPOETGENS, T. W.
C198-4
MAY 73 REL/EV 4
NO006-72-C-0527

REMARKS: ALSO SEE NSRDC TECH NOTE ON SAME SUBJECT.
DB NO 10-002479

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

MISSION - WEAPONS

QUERY-PART NO. MN0006

OCT 17 1976

DOCUMENT

NUMBER

10-U06655 M

BOEING CO.
(U) REPORT ON SHIP BEHAVIOR DURING TORPEDO TRIAL NO.
72MA252 ON PLAINVIEW

MAR 72

RELEV 4

LTR 2-1508-1000-575

NO0600-69-C-0618

REMARKS: REF TRIALS PLAN MN034-A252 (10-U07234)

10-U02145 M

BOEING CO.
(U) SHIP BEHAVIOR DURING SEA SPARROW/HYDROFOIL
COMPATIBILITY TESTS ON PLAINVIEW (AGEH-1)

MAY 73

RELEV 4

LTR 2-1524-1000-949

NO0600-69-C-0618

REMARKS: REF TRIALS PLAN MN0401-A272 (10-U07239)

10-U0555 M

BOEING CO.
(U) REPORT ON SHIP BEHAVIOR DURING SEA
SPARROW/HYDROFOIL COMPATIBILITY TESTS ON

PLAINVIEW (AGEH-1)

MAY 73

RELEV 4

LTR 2-1524-1000-949

NO0600-69-C-0618

REMARKS: REF TRIALS PLAN MN045-P305 (10-U07247)

10-U05121 M

BOEING CO.
(U) SHIP BEHAVIOR DURING HARPOON/HYDROFOIL
COMPATIBILITY TESTS ON HIGH POINT (PCN-1)

MAR 74

RELEV 4

LTP 2-1524-1000-1192

NO0600-69-C-0618

REMARKS: REF TRIALS PLAN CNH045-P305 (10-U07247)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - WEAPONS

QUERY-PART NO. UNNC08

OCT 17 1978

DOCUMENT NUMBER

DAVID M. TAYLOR NAVAL SHIP R&D CENTER
(U) SUMMARY OF HYDROFOIL PARTICIPATION IN FLEET
EXERCISES (U/15 PP)

RABEL, C.R. JULY 72 RELEV 3
REMARKS: REF TRIALS PLAN NEE206-P226 (10-U07188)

DAVID M. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-AEHE-1 TORPEDO COMPATIBILITY
EVALUATION-PHASE 1 (19 PP)

SPURRAY, J.E. SEPT 72 RELEV 5
NNO34-2252

REMARKS: REF RPTS 10-U06655, 10-C00400 AND 10-U01221

DAVID M. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1/AGEH-1 EVALUATION OF HEIGHT
SENSOR IN SEA SPARRON MISSILE ENVIRONMENT (6 PP)
RUSCUS, P.V. DEC 72 RELEV 5
NND44-203

REMARKS: NFF RPT 10-U07073

DAVID M. TAYLOR NAVAL SHIP R&D CENTER
(U) PCH-1 HARPOON TECHNICAL TRIALS, RELATED
CORRESPONDENCE AND MISCELLANEOUS DATA

73 RELEV 5
REMARKS: REF TRIALS PLAN NNO51A-P302 (10-U07271)

DAVID M. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 HARPOON HEIGHT SENSOR
COMPATIBILITY EVALUATION (23 PP)
SATCH, F.N.
RUSCUS, P.V.
NNO51A-P302

ALQ 73 RELEV 5
REMARKS: REF REPORTS 10-U05438, 10-U05121,
10-U05561, AND 10-U05438

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - WEAPONS

QUERY-PART NO. WNO006

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCM-1 SEA SPARROW HYDROFOIL
COMPATABILITY EVALUATION (66 PP)
RABEL, C.R.
NNO40A-A272

REMARKS: REF RPTS 10-C00543, 10-U02145, 10-U05395
AND 10-U02142

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 HARPOON CANISTER LAUNCHER
EVALUATION AND INTERFACE INVESTIGATION (11 PP)
NOV 73 RELEV 9
RABEL, C.R.
NNO45-P305

REMARKS: REF RPTS 10-U02851, 10-U05175, 10-C00733,
10-U0551, 10-U05426, 10-U05438, 10-U05549,
10-U05533, 10-U05559, 10-U05121, AND 10-U05603

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) HARPOON/HIGH POINT TRIALS : SUMMARY OF STRUCTURAL
SUPPORT ACTIVITIES

YARNALL, P.
LTR-74-173-MB2
REMARKS: REF TRIALS PLAN NNO51A-P302 (10-U07247) AND
NNO45-P305 (10-U07243)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) SEA SPARROW/HYDROFOIL COMPATIBILITY TRIALS
YARNALL, P.
MEMO CODE-173: PY-74-173-N JULY 74 RELEV 4

REMARKS: REF TRIALS PLAN NNO40A-A27 (10-U07239)
DOCUMENTS ASPECTS OF TRIAL PERTAINING TO
HYDROFOIL STRUCTURES

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) SEA SPARROW/HYDROFOIL COMPATIBILITY TRIALS
YARNALL, P.
MEMO CODE-173: PY-74-173-N JULY 74 RELEV 4

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - WEAPONS

QUERY-PART NO. MNNOCS

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) EFFECT OF MISSILE LAUNCH BLAST ON ACOUSTIC AND
RADAR HEIGHT SENSORS (17 PP)

RUSCUS, P.V.

SACRON, F.N.

TAE-SDD-11-0-18

ADBO00646

REMARKS: REF TRIALS PLAN NY044-H2B3 (10-II07242)

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL 1 & VOL II

(U)

JULY 75

RELEV 4

TN-SDD-115-18

REMARKS: REF DB/NO 10-500168

GRUMMAN AEROSPACE CORP.
(U) AGEMH-1 IN SUPPORT OF FUTURE HYDROFOIL SYSTEMS
DEVELOPMENT-FISCAL YEAR 1974; VOL 1 HISTORICAL
COMPENDIUM OF INVESTIGATIONS CONDUCTED IN FISCAL
YEAR 1974 (U)(53 PP)

(U)

JULY 74

RELEV 4

HO0406-74-C-0632

ADC0053:2

REMARKS: SOME COST ESTIMATES INCLUDED

GRUMMAN AEROSPACE CORP.
(U) AGEM IN SUPPORT OF FUTURE HYDROFOIL SYSTEMS
DEVELOPMENT-COMBAT SYSTEMS (19 PP)

MAY 75

RELEV 4

EXECUTIVE SUMMARY

HO0406-74-C-0632

AD8009987

REMARKS: USE OF AGEM AS A TEST BED FOR VARIOUS

WEAPON/SENSOR SYSTEMS. SEE ALSO 10-U06625LM.

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - WEAPONS

QUERY-PART NO. MNNO06

OCT 17 1978

DOCUMENT NUMBER

10-U02851 N
(U) FOUNDATION FOR HARPOON LAUNCHER ON PCH-MOD

I-SCANTLING CALCULATIONS JUNE 73 RELEV 4
J.O. # 1643-03

REMARKS: REF TRIALS PLAN MN045-P308 (10-U07243)

HUGHES AIRCRAFT CO. 10-C00763
(U) PROTOTYPE DEMONSTRATION FOR APPLICATION OF THE
PHOENIX MISSILE TO LIGHTWEIGHT SHIPS (U)(IS PP)
FEB 74 RELEV 4
RPT-74(21)-0591B/D1900

HUGHES AIRCRAFT CO. 10-C00983 N
(U) LIGHTWEIGHT WEAPON SYSTEM DEMONSTRATION PLAN FOR
A LARGE HYDROFOIL (U) (53 PP)
MAR 76 RELEV 4
N00406-75-C-1068

REMARKS: GOOD DISCUSSION OF AAW ENGAGEMENT

GEOMETRIES.

MCDONNELL DOUGLAS ASTRONAUTICS CO. 10-U05549 N
(U) PCH-1 HARPOON CANISTER LAUNCHER WEIGHT AND CENTER
OF GRAVITY INFORMATION OCT 73 RELEV 4
LTR 561-ESS1-0600

N00019-74-C-0041

REMARKS: REF TRIALS PLAN MN045-P305 (10-U07243)

MCDONNELL DOUGLAS ASTRONAUTICS CO. 10-U05438 N
(U) HARPOON CANISTER BLAST TEST VEHICLE LAUNCH TEST
REPORT-WSD PHASE VOL 1 JUNE 74 RELEV 4
WDC-E10448 YDL 1

N00019-74-C-0041

REMARKS: REF TRIALS PLAN MN051A-P302 (10-U07247) AND
MN045-P305 (10-U07243)

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - WEAPONS

QUERY-PART NO. MN0006

OCT 17 1978
DOCUMENT NUMBER

NAVAL SHIP MISSILE SYSTEMS ENGINEERING STATION
(U) SPARRON III/HYDROFOIL COMPATIBILITY TEST PLAN
MASSIN, G.
OCT 72 RELEV S
TN-4230-85

REMARKS: REF TRIALS PLAN NW040A-A272 (10-U07239)

NAVAL SHIP MISSILE SYSTEMS ENGINEERING STATION
(U) SEA SPARRON/HYDROFOIL COMPATIBILITY TEST REPORT
CROSS, T.A.
JUNE 73 RELEV 2
TR-276

REMARKS: REF TRIALS PLAN NW040A-A272 (10-U07239)

NAVAL SHIP MISSILE SYSTEMS ENGINEERING STATION
(U) D/S 609 PHASE IV HARPOON CANISTER LAUNCHER/PCH-1-
TEST PROJECT
MORRIS, D.W.
JUNE 73 RELEV S
TP-2

REMARKS: SEE DB/ND 10-U05553

NAVAL SHIP MISSILE SYSTEMS ENGINEERING STATION
(U) D/S 609 PHASE IV HARPOON/PCH-1 LAUNCH COUNTDOWN
NAVY PROCEDURE
NP-09-1

REMARKS: REF TRIALS PLAN NW045-P305 (10-J07243)

NAVAL SHIP MISSILE SYSTEMS ENGINEERING STATION
(U) D/S 609 PHASE IV-HARPOON/PCH-1 PERFORMANCE TEST
PROCEDURE
OCT 73 RELEV 4
NP-09-2

REMARKS: REF TRIALS PLAN NW045-P305 (10-U07243)

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - WEAPONS

QUERY-PART NO. MN0006

OCT 17 1978

DOCUMENT
NUMBER

NAVAL SHIP MISSILE SYSTEMS ENGINEERING STATION 10-U05553 M
(U) D/S 609 PHASE IV-HARPOON CANISTER LAUNCHER/PCH-1,
TEST

NUMBER. J.W. OCT 73 RELEV 4
TP-2. APPENDIX B

REMARKS: REF TRIALS PLAN NW045-P305 (10-U07243).
ALSO SEE DB/MO 10-U05378

NAVAL SHIP MISSILE SYSTEMS ENGINEERING STATION 10-C00733LF
(U) D/S 609 PHASE IV-TECH EVAL RPT-CANISTER HARPOON
WEAPON SYSTEM (APPROX 100 PP)

BRAND. A. JUNE 74 RELEV 4
RPT TR-299

REMARKS: REF TRIALS PLAN NW045-P305 (10-U07243)
DTNSROD LIBRARY #C30 570

NAVAL TORPEDO STATION, KEYPORT, WASHINGTON 10-U01221 F
(U) PRELIMINARY SUMMARY OF PLAINVIEW (AGEH-1)
RADIATED NOISE AND TORPEDO LAUNCHING TRIALS OF 23

FEBRUARY 1972 MAY 72 RELEV 5
PETERSON, T.E.
RPT-1158

REMARKS: REF TRIALS PLAN NW034-A252 (10-U07234)

NAVAL TORPEDO STATION, KEYPORT, WASHINGTON 10-C00400 M
(U) PLAINVIEW (AGEH-1) TORPEDO LAUNCHING TRIALS OF 23

FEBRUARY 1972 (U)(35 PP)
ATTR. S.P. SEPT 72 RELEV 4
RPT-1150
MR-2-0129

REMARKS: REF TRIALS PLAN NW034-A252 (10-U07234)

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - WEAPONS

QUERY-PART NO. MNNO06

OCT 17 1978

DOCUMENT NUMBER

10-C00718

NAVAL WEAPONS LABORATORY, DAHLGREN, VIRGINIA
(U) TRIALS PLAN-SMALL CRAFT FIRE CONTROL SYSTEM

EVALUATION (INV095-P314) (123 PP)

TOKAR, J.M.

MARSHAL, E.C. JUNE 74 RELEV 4

REMARKS: INCLUDING INSTALLATION ON PCMH-1

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CIC, NAV, SENSORS

SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - CIC, NAVIGATION, AND SENSORS

QUERY-PART NO. VNN007 OCT 17 1978

DOCUMENT NUMBER

10-U06952 F

BOEING CO.
(U) TRIALS PLAN-PCH-1 RADAR/NAVIGATION SYSTEM
DOCUMENTATION (10 PP)

JAN 72

RELEV 7

BE185-P261

REMARKS: NO REPORT REQUIRED

BOEING CO.
(U) TRIALS PLAN-PCH-1 RADAR/NAVIGATION SYSTEM
OVERHAUL AND DIGITAL NAVIGATION COMPUTER
INSTALLATION (16 PP)

FEB 72

RELEV 5

BE189-P259

REMARKS: EQUIPMENT INSTALLATION AND OVERHAUL

10-U06958 F

BOEING CO.
(U) TRIALS PLAN-PCH-1 REPLACEMENT OF SPEED INDICATOR
TRANSMITTER (12 PP)

MAR 72

RELEV 7

BE191-P263

REMARKS: EQUIPMENT INSTALLED. NO REPORT REQUIRED.

10-U06958 F

BOEING CO.
(U) TRIALS PLAN-PCH-1 ADDITIONAL TASKS FOR THE
DIGITAL NAVIGATION COMPUTER (17 PP)

AUG 72

RELEV 5

BE203-P271

REMARKS: EQUIPMENT SOFTWARE CHANGES

BOEING CO.
(U) TRIALS PLAN-PCH-1 DIGITAL NAVIGATION SYSTEM
EVALUATION (44 PP)

OCT 73

RELEV 5

BE192A-P307

REMARKS: REF REPORT 10-U06966

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HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY

MISSION - CIC, NAVIGATION, AND SENSORS

QUERY-PART NO. MNM007 OCT 17 1978

DOCUMENT NUMBER

BOEING CO.
(U) PCH-1 SONOBUOY MASKING STUDY-PROPOSED TRIALS
PLANS (10 PP)

APR 74 RELEV 7

HYSTU PLAN BE220-PC

REMARKS: PCH-1 UNDERWATER RADIATED NOISE SIGNATURE
ANALYSIS CONTAINED IN THIS DOCUMENT IS CLASSIFIED
UNDER DBP 10-06976

BOEING CO.
(U) PCH-1 MOD-1 DIGITAL NAVIGATION SYSTEM EVALUATION
REPORT (14 PP)

SEPT 74 RELEV 4

2-1524-1000-1319

NO0600-69-C-0618

REMARKS: REF TRIALS PLAN BE192A-P307 (10-06959)

ALSO BE199-P259, BE191-P263 AND BE203-P271

BOEING CO.
(U) HYDROFOIL RADIATED NOISE (U) (37 PP)

ALLEN, W. OCT 76 RELEV 3

D324-14004-1

REMARKS: INCLUDES REVIEW OF ALMOST ALL U. S.
HYDROFOIL ACOUSTIC RADIATED NOISE INFO.

BUNKER-RAMO CORP.
(U) ACTIVE/PASSIVE RELIABLE ACOUSTIC PATH SONAR
(APRAPS) ANALYSIS AND PREDICTION MODEL AND FINAL
TECHNICAL REPORT (U) (198 PP)

JUNE 77

DOC NO 50039-7C9

N00024-76-C-6220

REMARKS: GOOD SUMMARY OF APRAPS DEVELOPMENT PROGRESS
TO DATE.

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HYDROFOIL & AND D TRIALS DOCUMENTATION SUMMARY
MISSION - CIC, NAVIGATION, AND SENSORS

QUERY-PART NO. MNN0007 OCT 17 1978

DOCUMENT NUMBER

10-C00760

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PCH-1 EXERCISE ADMIRALTY TRIALS (U) (76 PP)
(COMPREHENSIVE REPORT OF 4-DAY OPERATION)
ROBERTS, J.H.
MAR 72 RELAY 4
LTR-SEH-01-72
HY078-A262
REMARKS: REP TRIALS PLAN MEO28-P230 (10-U08728) AND
REPORT 10-S00115

10-U07146 F

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-AGEH-1 DE-735 FATHOMETER AND 3D
PINGER INSTALLATION (5 PP)
MAR 72 RELAY 7
HY078-A262
REMARKS: EQUIPMENT INSTALLED-NO REPORT REQUIRED

10-C01041 M

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) ACOUSTIC DATA REQUIREMENTS IN SUPPORT OF
OPERATIONS ANALYSIS OF HYDROFOIL TORPEDO ARRAY
SONAR SYSTEMS (U) (3 PP)
PULOS, J.G.
APR 72 RELAY 5
MEMO 111:JGP 72-111-27 17
REMARKS: THIS DOCUMENT SHOULD BE LOOKED AT WHEN
REVIEWING PLAIN' EW NOISE TRIAL OR ANY OTHER
ACOUSTIC SIGNATURE WORK.

10-U07150 F

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 DESIGN AND INSTALLATION OF
CLOSED CIRCUIT TV MONITOR SYSTEM (10 PP)
AUG 72 RELAY 5
HY080-P268
REMARKS: EQUIPMENT INSTALLED-NO REPORT REQUIRED

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HYDROPOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - CIC, NAVIGATION, AND SENSORS

QUERY-PART NO. MNND007

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 AGEH- ELECTRO-MAGNETIC LOG
CALIBRATION WITH DOPPLER RADAR (5PP)
OCT 72 RELEV 5
HY088-H280

REMARKS: REF RPT 10-U05124

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 SMA JHM20 RADAR EVALUATION IN
SUPPORT OF PHM PROGRAM (11 PP)
RABEL, C.R.
NM059-P308

REMARKS: REF RPT 10-U06275

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) USE OF DOPPLER RADAR TO CALIBRATE A SHIP SPEED
LOG
MASON, J.W.
APR 74 RELEV 4
MEMO

REMARKS: REF TRIALS PLAN HY088-H280 (10-U07197)

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 LOWLIGHT LEVEL TELEVISION
TRIALS (9 PP)
BOROUGH, C.K.
NM059-P312

REMARKS: NO REPORT RELEASED

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) SMALL CRAFT FIRE CONTROL SYSTEM
EVALUATION/APPROVAL OF (1 PP)
HYSTU PLAN HY095-P314
MAY 74 RELEV 7

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - CIC, NAVIGATION, AND SENSORS

QUERY-PART NO. UNN007

OCT 17 1978

DOCUMENT NUMBER

10-U06275LM

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) EVALUATION OF THE SMA-3R20 RADAR ON THE
HYDROFOIL HIGH POINT (PCH-1)(53 PP)
RABEL, C.R.
MAR 75 RELEV 4
TN-SDD-115-06

AD8003557

REMARKS: REF TRIALS PLAN NM058-P308 (10-U07261)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) SHIPS DECK LOG PROCEDURES FOR RAD HYDROFOILS (14
PP)

MAY 75 RELEV 4

LTR-1154-49-75

REMARKS: REF-TRIALS PLAN-HY094-P315 (10-U07162)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCM-1ROCKWELL INTERNATIONAL
ANTI-CLUTTER RADAR SYSTEM (ACR) EVALUATION (51
PP)
MAR 76 RELEV 5

HY098-P335

REMARKS: REPORT DUE

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL 1 & VOL II
(U)

JUNE 76 RELEV 1

TN-SDD-115-18

REMARKS: REF DB/ND 10-500168

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - CIC, NAVIGATION, AND SENSORS

QUERY-PART NO. NW0007

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U09833

(U) TRIALS PLAN PCH-1 HIGH SPEED VELOCITY LOG
INTERMEDIATE SPEED FEASIBILITY DEMONSTRATION (30
PP)

JUNE 76 RELEV 1.

NW077-P336
REMARKS: REPORT DUE

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U09830
(U) TRIALS PLAN PCH-1 TACTICAL & NAVIGATION COLLISION
AVOIDANCE VIDEO SYSTEM (TACNAV) (29 PP)

CCT 76 RELEV 5

HY097-P333
REMARKS: REF-REFTS-10-U07479

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U09838

(U) TRIALS PLAN PCH-1 HS1001 VDS TRIALS (HYTON
PROJECT PLAN) (86 PP)

MAR 77 RELEV 5

HY103-P344
REMARKS: REPORT DUE 100EING TO REPORT SHIPS

PERFORMANCE AGAINST WTA 1107-78-010P

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U09835

(U) HIGHPOINT POLLBORNE TRANSMISSION UNDERWAY
CHECKOUT TRIALS LOG PACKAGE FOR VOYAGE NO. 083.

065, 066, & 068 (22 PP)

WHITEHEAD, V. R. APR 77 RELEV 5

LTR SER 90-77

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U09867 N
(U) TRIALS PLAN HYDROFOIL EXPERIMENTAL DETERMINATION
OF ARRAY SURVIVAL LOADS (6 PP)

MAY 77 RELEV 5

NW074-H343
REMARKS: NO REPORT RELEASED

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - C.I.C. NAVIGATION, AND SENSORS

QUERY-PART NO. 1MN007

OCT 17 1978

DOCUMENT NUMBER

FATHOM OCEANOLOGY, LTD.
(U) SPECIFICATION AND PROPOSAL FOR VARIABLE DEPTH
TOWING WINCH SYSTEM

JUNE 73 RELEV 4

PROPOSAL 6-326
REMARKS: PART OF CANADIAN VDS EFFORT

GENERAL ELECTRIC CO.

(U) COMPATIBILITY EVALUATION AND DEMONSTRATION
BETWEEN ASW TOWED ARRAY SONAR AND HIGH SPEED
CRAFT (U)(26 PP)

SEPT 73 RELEV 4

GENERAL ELECTRIC CO.

(U) FOIL MOUNTED SENSOR (10 PP)

MAAS, H. R. NOV 75 RELEV 4

FILE NO. 314-097

REMARKS: PROPOSAL TO CONSTRUCT, INSTALL, TEST AND
EVALUATE A FOIL MOUNTED SENSOR

GERMAN AEROSPACE CORP.

(U) AGEH IN SUPPORT OF FUTURE HYDROFOIL SYSTEMS
DEVELOPMENT-COMBAT SYSTEMS (19 PP)

MAY 75 RELEV 4

EXECUTIVE SUMMARY

N00400-74-C-0632

AB000987

REMARKS: USE OF AGEH AS A TEST BED FOR VARIOUS
WEAPON/SENSOR SYSTEMS. SEE ALSO 10-006625LM.

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 8

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - CIC, NAVIGATION, AND SENSORS

QUERY-PART NO. MM4007

OCT 17 1978

DOCUMENT NUMBER

10-U07755LM
GRIFFIN AEROSPACI CORP.
(U) USE OF PLATINUM (AGEM) TO EVALUATE ACTIVE
ASSISTIVE RELIABLE ACOUSTIC PATH SONAR (APRAPS)
S. (42 PP)

NOV 21 1978
NOOGOO-- C-0246
REMARKS: SEE COMMENTS ATTACHED TO BACK COVER

10-U07755LM

HUGHES AIRCRAFT CO.
(U) LIGHTWEIGHT WEAPON SYSTEM DEMONSTRATION PLAN FOR
A LARGE HYDROFOIL (U) (53 PP)
NOV 10 1978 MAR 75 RELEV 5
NO0400-75-C-1068
REMARKS: GOOD DISCUSSION OF AAW ENGAGEMENT
GEOMETRIES.

10-C00983 M

MARINE TECHNOLOGY
(U) COMPUTER SUPPORT IN THE DESIGN AND TESTING OF
UNDERSEA TOWED SYSTEMS
BURRAGHMS, J.D.
BENZ, B.C.
VOL 11, NO. 2, PP 159- 172 APR 74 RELEV 3

10-U05127 M

NAVAL ELECTRONICS LABORATORY CENTER
(U) TRIALS PLAN-PCH-1 DD/DE PENHA TRIALS (94 PP)
BERESFORD, D.W.
RAMEY, D.R.
NE029-P300
REMARKS: REF RPT 10-500133

10-U07191 F

NAVAL ELECTRONICS LABORATORY CENTER
(U) TRIALS PLAN-PCH-1 FLIR INSTALLATION (4 PP)
FERRE, J.
NE034-P318
REMARKS: EQUIPMENT INSTALLED-NO REPORT REQUIRED

10-U07194 F

NAVAL ELECTRONICS LABORATORY CENTER
(U) TRIALS PLAN-PCH-1 FLIR INSTALLATION (4 PP)
JUNE 74 RELEV 5
FERRER, J.
NE034-P318
REMARKS: EQUIPMENT INSTALLED-NO REPORT REQUIRED

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - CIC, NAVIGATION, AID SENSORS

QUERY-PART NO. MNM0007

OCT 17 1978

DOCUMENT NUMBER

NAVAL ELECTRONICS LABORATORY CENTER
(U) TRIALS PLAN-PCH-1 IN EW TRIALS-INSTALLATION PLAN
(17 PP)

BERESFORD, D.K.
ME036-319
REMARKS: EQUIPMENT INSTALLED-NO REPORT REQUIRED

10-U07195 F

JULY 74 RELEV 5

NE030A-P289C

REMARKS: CANCELLED

NAVAL ELECTRONICS LABORATORY CENTER
(U) TRIALS PLAN-PCH-1 ASMD TRIALS (1 PP)
ON PCH-1 (U) (105 PP)

OCT 74 RELEV 7

NE031-P320

REMARKS: CANCELLED

NAVAL ELECTRONICS LABORATORY CENTER
(U) (W PENETRATION AIDS IN SURFACE WARFARE (CONDUCTED
ON PCH-1) (U) (105 PP)

RABER, O.R.
TH-2856
REMARKS: REF TRIALS PLAN NE029-P300 (10-U07181)
PENALD TRIALS REPORT (TENTATIVE)

10-U07192 F

OCT 74 RELEV 7

NE031-P320

REMARKS: CANCELLED

NAVAL ELECTRONICS LABORATORY CENTER
(U) (W PENETRATION AIDS IN SURFACE WARFARE (CONDUCTED
ON PCH-1) (U) (105 PP)

RABER, O.R.
TH-2856
REMARKS: REF TRIALS PLAN HY095-P314 (10-U07183)

10-U07193 F

NOV 74 RELEV 4

NE031-P320

REMARKS: CANCELLED

NAVAL SURFACE WEAPONS CENTER, DAHLGREN, VIRGINIA
(U) VERSATILE ELECTRO-OPTICAL SYSTEM EVALUATION
SUMMARY-FINAL REPORT (U) (6 PP)

JAN 76 RELEV 4

07-32 SEP-C76005
REMARKS: REF TRIALS PLAN HY095-P314 (10-U07183)

10-C00794

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HYDROFOIL R AND U TRIALS DOCUMENTATION SUMMARY
MISSION - CIC, NAVIGATION, AND SENSORS

QUERY-PART NO. MNNO07 OCT 17 1978

DOCUMENT NUMBER

NAVAL SURFACE WEAPONS CENTER, DAHLGREN, VIRGINIA
(U) RESULTS OF THE VERSATILE ELECTRO-OPTICAL SYSTEM
SHIPPBOARD DEMONSTRATION ABOARD THE US SAGINAW
(LSI-1188) (U)
TOKAR, J.M.
NSWC/DL TR-3491
ADC006147

REMARKS: DESCRIBES AT-SEA-DEMONSTRATION OF (VEOS)
FOR AMPHIBIOUS AND FIRE CONTROL MISSIONS. SEE
HYDROFOIL TRIALS PLAN HY095-P314 (10-U07163)

NAVAL SURFACE WEAPONS CENTER, DAHLGREN, VIRGINIA
(U) VERSATILE ELECTRO-OPTICAL SYSTEM (VEOS)
EVALUATION PCH-1 FINAL REPORT (AN ADVANCED PROTOTYPING
PROGRAM OF COMBAT SYSTEMS DEVELOPMENT SEA-
0321(U) (317 PP)
TOKAR, JOHN M.
NSWC/DL TR-3545
ACD008503

REMARKS: REF TRIALS PLAN HY095-P314 (10-U07163)

NAVAL UNDERSEA CENTER
(U) TOWCRAFT SELECTION FOR THE "HIGH-SPEED TOWED
SONAR INVESTIGATION" (U) (55 PP)
POYNTER, R.J.
356/MO108-72 QF JUL 72

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TOWED SYSTEM: TRIAL
EVALUATION-PART I SUMMARY AND DATA
CALMINS, D.E.
NUC IP 241: PART I
AD207565L

REMARKS: FOR ALL 3 PARTS SEE DO NOS 10-U02314 THRU
10-U02318L. NSRDC LIBRARY NO U006367

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HYDROFOIL II AND D TRIALS DOCUMENTATION SUMMARY
MISSION - CIC, NAVIGATION, AND SENSORS

QUERY-PART NO. WNS007

DCT 17 1978

DOCUMENT NUMBER

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TOWED SYSTEM: TRIAL
EVALUATION PART II SYSTEM DESCRIPTION AND
OPERATIONAL CRITIQUE

CALKINS, D.E.

FORD, L.A.

NUC IP 241: PART II

AD907560L

REMARKS: FOR ALL 5 PARTS SEE DB NOS. 10-U02314 THRU
10-U02318L. NSRDC LIBRARY NO. U006367

10-U02318LM

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TOWED SYSTEM: TRIAL
EVALUATION PART III: TOWLINE HYDRODYNAMIC

PERFORMANCE

CALKINS, D.E.

NUC IP 241: PART III

AD907561L

REMARKS: FOR ALL 5 PARTS SEE DB NO. 10-U02314 THRU
10-U02318L. NSRDC LIBRARY NO. U006367

10-U02318LM

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TOWED SYSTEM: TRIAL
EVALUATION PART IV: DEPRESSOR HYDRODYNAMIC

PERFORMANCE

CALKINS, D.E.

NUC IP 241: PART IV

AD907560L

REMARKS: FOR ALL 5 PARTS SEE DB NOS. 10-U02314 THRU
10-U02318L. NSRDC LIBRARY NO. U006367

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
SESSION - CIC, NAVIGATION, AND SENSORS

QUERY-PART NO. 1000007 OCT 17 1978

DOCUMENT NUMBER

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TONED SYSTEM: TRIAL
EVALUATION PART V: TONED SYSTEM
COMPUTER-SIMULATION CORRELATION

CALKINS, D.E.

TUNSTALL, E.B.

BENZ, R.C.

NUC TP 241: PART V

AD907569L

REMARKS: RPT ESTABLISHES VALIDITY OF DIGITAL AND
ANALOG TONED-SYSTEM SIMULATIONS. SEE DB MOS
10-102314 THRU 10-102318L

10-C00797

NAVAL UNDERSEA SYSTEMS CENTER
(U) PCN-1 TONED ARRAY SONAR SYSTEM HIGH SPEED TEST

RESULTS (U1144 PP)

O'NEILL, R.

RPT SA14F-C34-75

JAN 75 RELEV 3

NAVAL WEAPONS LABORATORY, DAMMAGREN, VIRGINIA
(U) TRIALS PLAN-SMALL CRAFT FIRE CONTROL SYSTEM
EVALUATION (HY093-P314) (123 PP)

TOKAR, J.M.

MARSHALL, E.C.

JUNE 74 RELEV 4

REMARKS: INCLUDING INSTALLATION ON PCN-1

U. S. NAVY HYDROFOIL HIGH POINT (PCN-1)

ELMORE, R.

PLUMB, R.

LTR 5070 SEC 63-75

REMARKS: REF RPT 10-1023050

10-U07479 M

U. S. PRESIDENTIAL COST REDUCTION CAMPAIGN (130 PP)

ELMORE, R.

PLUMB, R.

OCT 75 RELEV 4

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SIGNATURES

SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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SEARCH FOR

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - SIGNATURES

QUERY-PART NO. MANNOS

OCT 17 1978

DOCUMENT
NUMBER

BOEING CO.
(U) HYDROFOIL RADIATED NOISE (U) (37 PP)
ALLEN, W. OCT 78 RELEV 3
D324-14004-1
REMARKS: COMMENTS ON (10 PP)
HYSTU PLAN BE210-PC

10-C01113LM

BOEING CO.
(U) HYDROFOIL RADIATED NOISE (U) (37 PP)
ALLEN, W. OCT 78 RELEV 3
D324-14004-1
REMARKS: INCLUDES REVIEW OF ALMOST ALL U. S.
HYDROFOIL ACOUSTIC RADIATED NOISE INFO.

BOLT BERANIK AND NEWMAN, INC.
(U) MODEL AND SILENCING PROGRAM FOR UNDERWATER
RADIATED NOISE FROM HYDROFOIL CRAFT: (U) (107 PP)
SIMULIN, J.
GOGOS, C.
RPT-2496
NO0050-72-C-0690
REMARKS: DRAFT

BOLT BERANIK AND NEWMAN, INC.
(U) UNDERWATER RADIATED NOISE SIGNATURE OF HYDROFOIL
PLATINUM (AGEM-1) (U) TRIALS PLAN HW029A4287
(110-W07230)
GOGOS, C.M.
RPT 2504
NO0050-73-C-0468
AD599365

REMARKS: EXTENSIVE INVESTIGATION OF TECHNIQUES TO
MEASURE HIGH SPEED CRAFT SIGNATURE. 3-D BEAM
PATTERNS OF AGEM FOILBORNE AT 2 SPEEDS.

10-C00974 M

JAN 73 RELEV 4
MAR 73 RELEV 1

10-C00364 M

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

MISSION - SIGNATURES

QUERY-PART NO. MNNOOB

OCT 17 1978

DOCUMENT
NUMBER

BOLT BERANEK AND NEWMAN, INC., MAILBORNE RADIATED NOISE
(U) PRELIMINARY SUMMARY OF MAILBORNE RADIATED NOISE
DATA FOR HIGH POINT PCH-1 RUNS 4, 6, 23, AND 25
(U) (11 PP)

MILES, P.
LTR DATED 15 AUG 1974
NO0600-73-C-0466

REMARKS: REF TRIALS PLAN MN058-P309 (10-U07289) THIS
1 OF 3 PRELIMINARY TURBINE AND DIESEL POWER
LETTER REPORTS PRIOR TO FINAL

10-C00973 M

BOLT BERANEK AND NEWMAN, INC., SUMMARY OF RADIATED NOISE DATA FOR HIGH POINT
PRIORITY #1 RUNS (2, 13, 17, 21) (U) (121 PP)
MILES, P.
LETTER DATED 17 OCT 74
NO0600-73-C-0466

REMARKS: REF TRIALS PLAN MN058-P309 (10-U07252)
TURBINE AND DIESEL POWER

10-C00971 M

BOLT BERANEK AND NEWMAN, INC., SUMMARY OF NARROW BAND RADIATED NOISE DATA FOR
HIGH POINT RUNS 4, 6, 23, AND 25 (U) (110 PP)
MILES, P.R.
LTR DATED 10 OCT 1974
NO0600-73-C-0466

REMARKS: REF TRIALS PLAN MN058-P309 (10-U07252)
PRELIMINARY LTR-SEE FINAL RPT

10-C00972 M

BOLT BERANEK AND NEWMAN, INC., HYDROFOIL HIGH POINT (PCH-1) RADIATED NOISE
SIGNATURE AND TACTICAL CONSIDERATIONS (U) (65 PP)
MILES, P.R.
COGOS, C.M.
TM-221
NO0600-73-C-0466

REMARKS: REF TRIALS PLAN MN058-P313 (10-U07293)

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HYDROFOIL & AND DETAILS DOCUMENTATION SUMMARY
MISSION - SIGNATURES

QUERY-PART NO. US00008

OCT 17 1978

DOCUMENT
NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-AGEH-1 MAGNETIC SIGNATURES (42 PP)
DESAVAGE, G. P.
NHO35A-A255

REMARKS: REF RPT 10-C00710

10-U07235 F

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) ACUSTIC DATA REQUIREMENTS IN SUPPORT OF
OPERATIONS ANALYSIS OF HYDROFOIL TONED ARRAY
SONAR SYSTEMS (U) (3 PP)
PULOS, J.G. APR 72 RELEV S
MEMO 111:JOP 72-111-27 17
REMARKS: THIS DOCUMENT SHOULD BE LOOKED AT WHEN
REVIEWHING PLAINVIEW NOISE TRIAL OR ANY OTHER
ACUSTIC SIGNATURE WORK.

10-C01041 M

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-AGEH-1 PRESSURE MEASUREMENTS (23 PP)
WILBANKS, E.A. APR 72 RELEV S
NHO36A-A269

REMARKS: REF RPT 10-C00123, 10-C00978
AND 10-U05531

10-U07236 F

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-AGEH-1 INVESTIGATION OF TECHNIQUES TO
MEASURE RADIATED UNDERWATER NOISE OF HYDROFOILS
HALPER, D.P. JUNE 72 RELEV S
NHO35A-A267

REMARKS: REF RPT 10-C00364

10-U07238 F

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCM-1 MACHINERY AND AIRBORNE NOISE
CHARACTERISTICS (13 PP)
SCHAD, H.W. AUG 73 RELEV S
NHO34A-P301

REMARKS: REF RPT 10-U05493

10-U07286 F

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - SIGNATURES

QUERY-PART NO. MNH908

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 MULTIPLE INFLUENCE MEASUREMENTS 10-U07252 M
113 PP)
HALPER, D.P. JAN 74 RELEV S
NN058-P309
REMARKS: REF RPT 10-U07252, 10-C00973, 10-C00971
AND 10-C00972

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U07253 F
(U) TRIALS PLAN-PCH-1 UNDERWATER RADIATED NOISE
MEASUREMENTS (113 PP)
HALPER, D.P. APR 74 RELEV S
NN059-P313
REMARKS: REF RPT 10-C00706

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-C01088LM
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL 1 & VOL II
(U)
JUNE 76 RELEV 1
TN-SDD-115-18
REMARKS: REF DB/NO 10-S00163

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-S00168L
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART II
TECHNICAL ASSESSMENT HYDROFOIL SHIP SIGNATURE
EVALUATION
AUG 76 RELEV 1
TN-SDD-115-19
REMARKS: SECRET SUPPLEMENT REF DB/NO. 10-C01088L

GENERAL ELECTRIC CO.
(U) COMPATIBILITY EVALUATION AND DEMONSTRATION
BETWEEN ASW TORPEDO ARRAY, SONAR AND HIGH SPEED
CRAFT (U)(26 PP)
SEPT 73 RELEV 4

10-500109L

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HYDROFOIL R AND D' RAILS DOCUMENTATION SUMMARY
MISSION - SIGNATURES

QUERY-PART NO. MNO008

OCT 17 1978
DOCUMENT NUMBER

JOHNS HOPKINS APPLIED PHYSICS LABORATORY 10-Crn653
(U) ACOUSTICAL MEASUREMENTS OF SURFACE EFFECT SHIPS
(SES 100A AND SES 100B)(U)(125 PP)
HILL, F.H.

DINAM, J.J.
RPT-OR-73-165
NOG017-72-C-4401

APR 74 RELEV 2
ADCO00455
REMARKS: COMPARATIVE WATERTORNE NOISE DATA FROM PGH-
1, PGH-2, AGEM-1, PCN-1, DENISON, SRN-4, SES
100A, AND SES 100B AN-4.

NAVAL COASTAL SYSTEMS LABORATORY 10-C00978 N
(U) REPORT OF TRAVEL AND PRELIMINARY RESULTS OF
PRESSURE RANGING OF GEN-1 (U) (16 PP)
WILBANKS, E.A. MAY 72 RELEV 5
REMARKS: REF TRIALS PLAN NHO36A-A260 (10-U07236)
INFORMAL MEMO-SEE FINAL REPORT

NAVAL COASTAL SYSTEMS LABORATORY 10-S00123
(U) PRESSURE SIGNATURE MEASUREMENTS OF THE HYDROFOIL
USS PLAINVIEW (AGF-1)(U)(137 PP)
WILBANKS, E.A.
VAN BIGGER, V.H.
MCGRAN, C.T.
NCNL-190-73

SEPT 73 RELEV 2
AD522417
REMARKS: REF TRIALS PLAN NHO36A-A260 (10-U07236)
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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - SIGNATURES

QUERY-PART NO. UNKNOWN

OCT 17 1978

DOCUMENT NUMBER

10-500111

NAVAL COASTAL SYSTEMS LABORATORY
(U) INFLUENCE FIELDS OF THE HIGHPOINT PCH-1 (U)(S8
PP)

VAN GIBBER, V.H.
WILLIAMS, C.A.
NCNL 230-75
REMARKS: NSRDC LIBRARY #S 13853

10-500137L

NAVAL ELECTRONICS LABORATORY CENTER
(U) HYDROFOIL SHIP SIGNATURE EVALUATION STUDY (U)
1102 PP
EPSTEIN, R.M. FEB 76 RELEV 3

NELC LTR SER 0232-S19
REF TRIALS PLAN NW036A-A260 (10-U07236).
REMARKS: REF TRIALS PLAN NW036A-A260 (10-U07236).
EXCELLENT REVIEW OF EXISTING HYDROFOIL SIGNATURE
INFO.

10-C00710

NAVAL ORDNANCE LABORATORY, WHITE OAK, MARYLAND
(U) MAGNETIC SIGNATURE ANALYSIS OF THE HYDROFOIL
AGEN-1 (U)(S9 SP)

DESSAGE, B.F. FEB 72 RELEV 4
BROWN, J.E.
NOLTB-72-52
REMARKS: REF TRIALS PLAN NW035A-A255 (10-U07235)

10-U01221 F

NAVAL TORPEDO STATION, KEYPORT, WASHINGTON
(U) PRELIMINARY SUMMARY OF PLAINVIEW (AQMH-1)
RADAR AND TORPEDO LAUNCHING TRIALS OF 23

FEBRUARY 1972
PETERSON, T.E. MAY 72 RELEV 5
RPT-1158
REMARKS: REF TRIALS PLAN NW034-A252 (10-U07234)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION - SIGNATURES

QUERY-PART NO. MNO008

DOCUMENT NUMBER

NAVAL TORPEDO STATION, KEYPORT, WASHINGTON
(U) PLAINVIEW (AGEN-1) TORPEDO LAUNCHING TRIALS OF 23
FEBRUARY 1972 (U)(35 PP) 10-C00400 M
ATRI, S.P. SEPT 72 RELEV 4
RPT-1160
NR2-0129
REMARKS: REF TRIALS PLAN NM034-A252 (10-U07234)

NAVAL TORPEDO STATION, KEYPORT, WASHINGTON
(U) PLAINVIEW (AGEN-1) PRESSURE SENSOR TRIALS OF 25
AND 28 APRIL 1972 10-U05531 M
ATRI, S.P. SEPT 72 RELEV 4
RPT-N-72-11
REMARKS: REF TRIALS PLAN NM036A-A260 (10-U07236)
-14A1::18:0870:2200:1100

NAVAL UNDERWATER SYSTEMS CENTER
(U) PCF-1 TONED ARRAY SONAR SYSTEM HIGH SPEED TEST
RESULTS (U)(44 PP) 10-C00797
O'NEILL, R.
RPT SA14F-C24-75 JAN 75 RELEV 3

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PERFORMANCE
TESTS

CHARACTERISTIC

SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUIC HY-PART NO. M00009

OCT 17 1978

DOCUMENT
NUMBER

10-U02836 M

BOEING CO.
(U) DETERMINATION OF PCH-1 HULLBORNE SEAKEEPING

CW-CHARACTERISTICS
RIEG, D.F.
TN-2-19

N0000-69-C-0618

REMARKS: EVALUATES EFFECTS OF ACTIVE CONTROL SYSTEM
AND FOIL POSITION ON HULLBORNE MOTIONS

BOEING CO.
(U) REPORT ON SHIP BEHAVIOR DURING TORPEDO TRIAL NO.

72M4252 ON PLATINUM
LTP 2-1506-1000-575
N0000-69-C-0618

REMARKS: REF TRIALS PLAN N0034-A252 (10-U07234)

BOEING CO.

(U) TRIALS PLAN-AGEH-1 HULLBORNE CHARACTERISTICS (2)

"P"
MAR 72 RELEV 4

REMARKS: REF RPT 10-U09851

BOEING CO.
(U) VOYAGE SUMMARY OF HIGH POINT PCH-1 TECHNICAL

TRIAL DEPLOYMENT JAN 5, TO MAR 15, 1971
SALISBURY, V.
D2-133634-1

REMARKS: REF TRIAL PLAN N0026-P226 (10-U07188)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 2

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. MMN009

OCT 17 1978

DOCUMENT NUMBER

10-U02281 M

BOEING CO.
(U) SPEED AND POWERING TESTS WITH NEW TORQUE AND
THRUST METERS (PCH-MOD 0)
REF ID: D.
LNR 2-1968-10000-685
NO0800-69-C-0618
REMARKS: GOOD SUMMARY OF PCH-MOD 0 SMOOTH WATER
SPEED AND POWERING TESTS WITH VARIOUS PROPELLERS

BOEING CO.
(U) TRIALS PLAN-AGEN-1 PRE-ROUGH WATER READINESS
TRIAL (111 pp)
AUG 72 RELEV 5
REF ID: A273
REMARKS: REF RPTS 10-U05036 AND 10-U05037

BOEING CO.
(U) TRIALS PLAN-AGEN-1 PHASE I-ROUGH WATER TRIALS (64
pp)
NOV 72 RELEV 5
REF ID: A279
REMARKS: REF RPTS 10-C00541, 10-U05711, 10-U04886
AND 10-U04887

BOEING CO.
(U) TRIALS PLAN-AGEN-1 SIX DEGREE OF FREEDOM DIGITAL
SIMULATION OF THE FOILBORNE (6 pp)
JAN 73 RELEV 5
REF ID: A285
REMARKS: REF RPTS 10-U0591

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 3

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. MN009

OCT 17 1978

DOCUMENT
NUMBER

10-U02931 M

BOEING CO.
(U) TRIALS REPORT ON DYNAMIC CHARACTERIZATION
READINESS (AGEH-11)

BENZ, R.C.
FARRIS, W.E.
TN-A-12

MO0600-69-C-0610
REMARKS: REF TRIALS PLAN BE181-A256 (10-U06939)

BOEING CO.
(U) ANALYSIS OF THE RIDE QUALITY OF HYDROFOIL SHIP
PCH-1 HIGH POINT, AND CORRELATION OF MEASURED
RIDE PARAMETERS WITH ANALYTICAL PREDICTIONS
HARANG, A.O.
STARK, D.R.
LTR 2-1568-3000-075
NO02473-C-0257
REMARKS: MAKES COMPARISON OF VERTICAL AND LATERAL
ACCELERATIONS FOR FCH-MOD-0, PCH-MOD-1, PHM, PCH-
2 AND JETFOIL

BOEING CO.
(U) TRIALS PLAN-AGEH-1 FOILBORNE EMERGENCY
PROCEDURES(16 PP)
BE133A-A286
REMARKS: REF. RPTS.-10-U02156(TN-A-9)

BOEING CO.
(U) TRIALS PLAN-AGEH-1 DYNAMIC CHARACTERIZATION
READINESS (38 PP)
FEB 73 RELEV S
BE181-A256
REMARKS: REF RPTS 10-U02931 (TN-A-12)

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

HYDROFOIL PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. WNN029

OCT 17 1978

DOCUMENT NUMBER

BOEING CO. (U) GRAPHS & PLOTS OF DEFINITIVE CHARACTERISTICS OF

AGEH-1 (NULLBORNE-SMOOTHWATER (7 PPI)
MAR 73 RELEV 4

LTR-2-1524-1000-920

NO0620-69-C-0618

REMARKS: REF-TRIALS PLAN-BE159-A311 (10-U06929)

TRAILERS & REPORT NOT COMPLETED

10-U09851

10-U05550 M

BOEING CO. (U) REPORT ON SHIP BEHAVIOR DURING SEA
SPARROW/HYDROFOIL COMPATIBILITY TESTS ON
PLAINVIEW (AGEH-1)

MAY 73 RELEV 4

LTR-2-1524-1000-949

NO0600-69-C-0618

REMARKS: REF-TRIALS PLAN BE132A-A241 (10-U06924)
BOEING CO. (U) DIFFERENCES BETWEEN PREDICTED AND ACTUAL
DIRECTIONAL STABILITY AND FLAT TURNING
CHARACTERISTICS
THORASSON, R.E.
RIEG, D.F.
TN-A-11
NO0600-69-C-0618

10-U02444 M

REMARKS: REF-TRIALS PLAN BE132A-A241 (10-U06924)
BOEING CO. (U) TRIALS PLAN-AGEH-1 SMOOTH WATER FOILBORNE
CHARACTERISTICS-PHASE II (127 PPI)
JUNE 73 RELEV 4
BE132-A241
REMARKS: REF RPT 10-U02444 (1N-A11)

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. MNNO09

OCT 17 1978

DOCUMENT NUMBER

10-009910

BOEING CO.
(U) AGEN-1 FOILBORNE ROUGH WATER MOTION
CHARACTERISTICS (2 PP)

JUNE 73

RELEVE 4

2-1524-1000-988

N00600-69-C-0618

REMARKS: REF TRIALS PLAN NHO37-A254 (10-U07237)

BOEING CO.
(U) AGEN-1 CURRENT SPEED-POWER CHARACTERISTIC DATA
(U)

RIGG, D.F. OCT 73 RELLEV 2

LTR 2-1524-1000-1114

N00600-69-C-0618

REMARKS: REF TRIALS PLAN BE199A-A279 (10-U06961)

BOEING CO.
(U) AGEN-1 ROUGH WATER SPEED-POWER DATA-TRIALS PLAN
BE199A-A279 (10-U06961)

RIGG, D.F. JAN 74 RELLEV 2

LTR 2-1524-1000-1163

N00600-69-C-0618

REMARKS: CONTAIN SPEED, MP. PROP RPM AND TORQUE DATA
FOR SEA STATES 3 AND 4.

10-000541 M

BOEING CO.
(U) EQUATIONS FOR AND RESULTS FROM THE DIGITAL
SIMULATION OF THE FOILBORNE AGEN-1

HAWKINS, P.J. JAN 74 RELLEV 4

D319-S1500

N00600-69-C-0618

REMARKS: REF TRIALS PLAN BE206-A285 (10-U06967)

10-004887 M

BOEING CO.
(U) EQUATIONS FOR AND RESULTS FROM THE DIGITAL
SIMULATION OF THE FOILBORNE AGEN-1
HAWKINS, P.J. JAN 74 RELLEV 4

D319-S1500

N00600-69-C-0618

REMARKS: REF TRIALS PLAN BE206-A285 (10-U06967)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 6

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. UNH009

OCT 17 1978

DOCUMENT NUMBER

BOEING CO.

(U) RESULTS OF ROUGH WATER TRIALS (PHASE 1)-TRIALS
PLAN BE 1994-A279 (10-U09861)
SHAKARIAN, A.
COLEMAN, J.T.
TN-A-16
NO0600-69-C-0618
REMARKS: CONTAIN ROUGH WATER DATA THRU SEA STATE 4
ONLY FULL-SCALE ROUGH WATER DATA TO DATE.

BOEING CO.

(U) AGEM-1 PLAINVIEW. RESULTS OF PRE-ROUGH WATER
TRIALS, PART A
CHANG, F.
TN-A-14
NO0600-69-C-0619
REMARKS: REF TRIALS PLAN BE152A-A273 (10-U06922)

BOEING CO.

(U) AGEM-1 ROUGH WATER SPEED POWER DATA
LTR-2-1524-1000-1190
NO0600-69-C-0618
REMARKS: TRIALS PLAN BE152B-A273 (10-U06922)

BOEING CO.

(U) PCM-1 MOD-1 TRIM, TURNING & STEP RESPONSE
CHARACTERISTICS-DEFINITIVE CHARACTERISTICS
FOILBORNE (16 PP)
2-1524-1000-1233
NO0600-69-C-0618
REMARKS: REF-TRIALS PLAN-MW0428-P290 (10-U07241)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 7

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. MN0009

OCT 17 1978
DOCUMENT NUMBER

BOEING CO.

(U) TRIALS, TURNING AND STEP RESPONSE FIG. 4 AND 7 OF
PCH-1 DEFINITIVE CHARACTERISTICS FOILBORNE (12 PP)

APR 74 RELEVE 4

27-1524-1000-1248

NO0600-69-C-0618

REMARKS: REF TRIAL PLAN MN0428-P290 (10-U07241) SEE
DB/NO 10-U09816 FOR FIG. 4 AND 7.

BOEING CO. 10-U09909 f
(U) BOEING RECOMMENDED ITEMS FOR NSRDC WORKSHOP (JUNE
1974) JUNE 74 RELEVE 5

BOEING CO. 10-U05658 w

(U) DATA ON SPEED, RPM, FUEL FLOW AND WEIGHT IN
SUPPORT OF THE SAN DIEGO TRIP OF PCH MOD 1 (13
PP)

JULY 74 RELEVE 4

LTR 2-1524-1000-1290

NO0618-69-C-0618

BOEING CO. 10-U09849
(U) TRIALS PLAN PCH-1 TECHNICAL EVALUATION DURING
USCG OPERATION (17 PP) APR 75 RELEVE 5

B6223-P322

NO0600-73-C-1107

REMARKS: REF-RPT5-10-U08487

BOEING CO. 10-C00277L
(U) BOEING TRIALS & ESTIMATED PERFORMANCE DATA FOR
PCH-1. PGH-2, & PHN-1 (U) (20 PP)

DEC 75 RELEVE 4

LTR-2-1522-0000-347

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. 0000006

OCT 17 1978

DOCUMENT
NUMBER

BOEING CO.
(U) TRIALS AGENDA AGEH-1 DUTCH ROLL & HEIGHT
TRANSIENT INVESTIGATION (11 PP)

MAR 78 RELEV S
77-H-A03X
H00600-78-C-1107

REMARKS: NO TRIAL PLAN NUMBER ISSUED REF-NIA
1107-78-005A:RPT. TO BE ISSUED

10-U09823

BOEING CO.
(U) TRIALS PLAN-PCH-1 1971 ROUGH WATER TRIALS (26 PP)
SEPT 78 RELEV S
DE160-5217

REMARKS: NJ REPORT RELEASED

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PCH-1 EXERCISE ADMIRALTY TRIALS (U) (76 PP)
COMPREHENSIVE REPORT OF 4-DAY OPERATION
ROBERTS, J.H. MAR 72 RELEV 4
ITA-SEC-01-72

REMARKS: REF TRIALS PLAN NED02B-P230 (10-U00728) AND
REPORT 10-S00119

10-C00760

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) AIRBORNE NOISE ON PCH-1 (HIGHPOINT) HYDROFOIL
SCMAB, H.W. JULY 72 RELEV S
TAE-27-230

10-U02045 F

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) AIRBORNE NOISE ANALYSIS OF USS PLAINVIEW (AGEH-1)
AFTER INSTALLATION OF AIR INTAKE PLenum ACoustIC
TREATMENT
ARCIRO, L.J. JULY 72 RELEV 2
LIR NPT 27-247

10-U02083 H

REMARKS: REF TRIALS PLAN HY074A-A242 (10-U007144)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 9

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. NWW009

OCT 17 1978

DOCUMENT NUMBER

10-007144 F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-AGEH-1 AIRBORNE NOISE LEVEL ANALYSIS

117 PP)

JULY 72 RELEVE 5

NW074A-A242

REMARKS: REF RPT 10-U02083

10-007241 F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 MOD-1 SMOOTH WATER
CHARACTERISTICS (23 PP)

O'NEILL, W.C.

APR 73 RELEVE 5

NW042B-P200

REMARKS: REF RPT 10-U09816-TURNING, TRIM AND STEP
RESPONSE CHARACTERISTICS

10-007286 F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 MACHINERY AND LABORNE NOISE
CHARACTERISTICS (13 PP)

SCHAU, M.M.

AUG 73 RELEVE 5

NW044A-P301

REMARKS: REF TRIALS PLAN BE164-P219 (10-U05493)

10-002826 N

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) HUMAN FACTORS EVALUATION OF A HYDROFOIL DURING
EXTENDED TRANSIT AND EXERCISE OPERATIONS

EDMONDO, P.

OCT 73 RELEVE 4

TAE-27-551

REMARKS: REF TRIALS PLAN BE164-P219 (10-U06934)

10-007249 F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 MOD-1 ROUGH WATER TRIALS (32
PP)

SAXTON, P.H.

FEB 74 RELEVE 5

NW042B-P310

REMARKS: REF RPT 10-U05118

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. WND009 OCT 17 1978

DOCUMENT NUMBER

10-U05277 M

DAVID W. TAYLOR NAVAL SHIP RD CENTER
(U) USS PLATINUM (AGM-11) PRELIMINARY VIBRATION
STUDIES-REF TRIALS PLAN NN031-A231 (10-U07231),
SCHAUER, R.E. APR 74 REL/EV 2

TSE-SAD-79E-1968

REMARKS: BELL DONE STUDY WHICH COMPARES FULL SCALE
AND ANALYTICAL PREDICTIONS FOR HULL AND FOIL
SYSTEM VIBRATIONAL CHARACTERISTICS AND STRUT
FLUTTER SPEEDS. COMPARISON WITH MIL STD 167B AND
HUMAN VIBRATION TOLERANCES LEVELS ARE ALSO MADE

DAVID W. TAYLOR NAVAL SHIP RD CENTER 10-U07161 F

(U) TRIALS PLAN-HYDROFOIL SUND RAND AHV-6 RADAR
ALTITUDE-MEIGHT SENSOR EVALUATION
MAY 74 REL/EV 5

HY093-H325

REMARKS: REPORT TO BE RELEASED. SEE TRIALS PLAN
HY104-H341

DAVID W. TAYLOR NAVAL SHIP RD CENTER 10-U07255 F

(U) TRIALS PLAN-PCH-1/PGH AND OTHER CRAFT COMPARATIVE
SEKEEPING (16 PP)
LABEL, C.R.
NN061-P323

REMARKS: CANCELLED

DAVID W. TAYLOR NAVAL SHIP RD CENTER 10-U07256 F

(U) TRIALS PLAN-PCH-1 MOVIES OF STRUCTURAL MANEUVERS
(17 PP)
YARNALL, P.
NN062-P324C
REMARKS: ONE MOVIE COMPLETED-REMAINDER OF TRIAL
CANCELLED 12111:6315:1092:1A:567:2002:0100

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. WNN009

OCT 17 1978

DOCUMENT
NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 EVALUATION OF SEPT. 1974
HYDROFOIL DIGITAL AUTOPilot (HODAP) CONFIGURATION
(32 pp)
O'NEILL, M.C.
N00648-F328
REMARKS: REF. DRAPER LAB-R745(10-U02401)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 HYDAP TESTS-EFFECTS OF VARING
GAIN ON HULLBORNE MOTION (23 pp)
O'NEILL, M.C.
N00608-P317
REMARKS: NO REPORT RELEASED

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 FLAP EFFECTIVENESS-STATIC
DYNAMIC DURING MANEUVERS AND FOLLOWING BROADCHANGING
(27 pp)
O'NEILL, M.C.
N0065-329
REMARKS: NO REPORT RELEASED

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 BASE LINE
O'NEILL, M.C.
25
27
N0066-P330
REMARKS: REPORT TO BE RELEASED

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-PCH-1 1975 ROUGH WATER TRIALS (51 pp)
O'NEILL, M.C.
N0067-P331
REMARKS: REPORT DUE

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 12

HYDROFOIL PERFORMANCE - DOCUMENTATION SUMMARY

QUERY-PART NO. MNNO09

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-C01088LM

(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PAPER 1
(U) TECHNICAL ASSESSMENT: HYDROFOIL VOL 1 & VOL 11

JUNE 76 RELEV 1

TN-5DD-115-18

REMARKS: REF: DB/NO 10-500168

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U07662LM

(U) SDD DATA BANK HYDROFOIL DOCUMENT LISTING
"PERFORMANCE" : (FOR ANVCE STUDY, TASK II, CHAP
111) (APPROX 150 PP)

JUNE 76 RELEV 5

REMARKS: REF: ANVCE TECH. ASSESSMENT VOL 1 & 11
DB/NO 10-C01088L

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U08456 M

(U) PLAINVIEW (AGEN-1) PC-1 OVERHAUL OPERATIONAL
LIMITS SEPTEMBER 1976 (7 PP)

SEPT 76 RELEV 4

LTR-SER 156-76

REMARKS: OPERATIONAL RED LINE LISTINGS

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U08465 M

(U) DCH-1 MOD-1 CALM WATER TRIALS DATA FOR
TRANSMISSION TO BOEING FOR COMPARISON WITH SIMILAR
PHM-1 DATA (B3 PP)

SEPT 76 RELEV 4

LTR-76-173-M125

REMARKS: DATA ON CALM WATER DEBRIS AVOIDANCE
MANEUVERS AND FORWARD FOIL BROACHES.

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

QUERY-PART NO. WNN009

OCT 17 1978

DOCUMENT NUMBER

10-U08803 M

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PLAINVIEW AGEM-1 TRIAL AGENDA POST NAV/OVERHAUL

CHECKOUT SECTION C: UNDERWAY MULLBORNE (61 PP)
SEPT 76 RELEV 5

76-H-A07X

REMARKS: REV A OF SECTION C. SEE 10-U08810M FOR
ORIGINAL OF SECTION C.

10-U08824 M

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PCM-1 MOD-1 CALM WATER TRIALS DATA FOR
TRANSMISSION TO BOEING FOR COMPARISON WITH SIMILAR
PHM-1 DATA (63 PP)

GILL, D.E. SEPT 76 RELEV 4
LTR-76-173-M125

REMARKS: REF TRIALS PLAN NM049-P294 (10-U07245)

10-U08810 M

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PLAINVIEW (AGEM-1) POST NAV/OVERHAUL UNDERWAY
MULLBORNE AND FOILBORNE CHECKOUT TRIAL AGENDAS
(139 PP)

OCT 76 RELEV 5
LTR 76-H-A07X

REMARKS: SECTIONS C AND D.

10-U08807 K

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) M'DPOINT FOILBORNE TRANSMISSION UNDERWAY
CHECKOUT TRIALS LOG PACKAGE FOR VOYAGE NO. 063.
065, 066, & 068 (22 PP)
WHITEHEAD, V.R. APR 77 RELEV 5
LTR SER 90-77

10-U08866 M

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PLAINVIEW (AGEM-1) POST OVERHAUL OPERATIONAL
LIMITS MAY 1977 (7 PP)
MAY 77 RELEV 4
LTR-SER01-77

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. MN0009

OCT 17 1978

DOCUMENT

NUMBER

DEFENCE RESEARCH ESTABLISHMENT. ATLANTIC
(U) TITLE IS RESTRICTED

JONES, E.A.
DREA TN-N/73/3

10-C00706L

MAR 73 RELEV 2

DREA RPT-74/2

AD800293B

DEFENCE RESEARCH ESTABLISHMENT. ATLANTIC
(U) PREDICTION OF PITCH AND HEAVE MOTIONS OF
HULLBORNE HYDROFOIL VESSELS (63 PP)

JAN 74 RELEV 2

DREA RPT-74/2

AD800293B

REMARKS: CORRELATION LOOK EXCELLENT IN HEAD SEAS.
CORRELATES AGEM MODEL TESTS. FME-400 FULL SCALE
DATA WITH COMPUTER PROGRAM

GENERAL ELECTRIC CO.
(U) COMPATIBILITY EVALUATION AND DEMONSTRATION
BETWEEN ASW TOWED ARRAY SONAR AND HIGH SPEED
CRAFT (U)(26 PP)

SEPT 73 RELEV 4

10-S00109L

VOL 11 NO. 2. PP 159- 172

MARINE TECHNOLOGY
(U) COMPUTER SUPPORT IN THE DESIGN AND TESTING OF
UNDERSEA Towed SYSTEMS
BURROUGHS, J.D.
BENZ, R.C.

APR 74 RELEV 3

10-U05127 M

VOL 11 NO. 2. PP 159- 172

NAVAL ELECTRONICS LABORATORY CENTER
(U) COMMENTS ON BCH-1 IN EXERCISE ADMIRALTY (U)(2 PP)
MCMAHON, W.A.
LTR #232-201/JG01
RELEV 4

REMARKS: REF TRIALS PLAN NO. P230 (10-U08728)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 15

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. W0009

OCT 17 1978

DOCUMENT NUMBER

NAVAL SHIP MISSILE SYSTEMS ENGINEERING STATION
(U) SEA SPARRER/HYDROFOIL COMPATIBILITY TEST REPORT
GROSS, T.A.
JUNE 73 RELEV 2
TR-276
REMARKS: REF TRIALS PLAN N0040A-A272 (10-U07229)

NAVAL TORPEDO STATION, KEYPORT, WASHINGTON
(U) PLAINVIEW (AGEH-1) TORPEDO LAUNCHING TRIALS OF 23
FEBRUARY 1972 (U)(35 pp)
ATTRL. S.P.
SEPT 72 RELEV 4
RPT-1160
WR-2-0129
REMARKS: REF TRIALS PLAN N0034-A252 (10-U07234)

NAVAL UNDERSEA CENTER
(U) TORCRAFT SELECTION FOR THE "HIGH-SPEED TORPEDO
SONAR INVESTIGATION" (U) (55 pp)
POINTER, R.J.
JULY 72 RELEV 4
356/N0108-72 OF JUL 72

PUGET SOUND NAVAL SHIPYARD
(U) USS HIGH POINT (PCH-1) MOD-1)-STRUCTUREBORNE AND
AIRBORNE NOISE SURVEY
MAY 74 RELEV 2
T-10146
REMARKS: REF TRIALS PLAN N0034A-P301 (10-U07286)

SPIEGENS, L. M.
(U) EVALUATION OF TORSIONAL VIBRATION CHARACTERISTICS
OF FOILBORNE PROPULSION SYSTEMS-HYDROFOIL
PLAINVIEW (AGEH-1)
SPIEGENS, T.M.
APR 72 RELEV 4
C1508-1
N00406-72C-0527
REMARKS: INTERIM REPT. SEE DS NO. 10-U02029

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SEARCH FOR PAGE 16

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
PERFORMANCE - CHARACTERISTICS

QUERY-PART NO. W00009

OCT 17 1978

DOCUMENT
NUMBER

U. S. COAST GUARD
(U) OPERATIONAL EVALUATION OF THE HYDROFOIL CONCEPT
FOR U. S. COAST GUARD MISSIONS, PHASE III
REPORT OF OPERATIONS WITH USCGC HIGH POINT (MEW)
11 1165 2P1

IRVINE, J.F.
BLAKE, D.T.
CO-D-102-75
REMARKS: RCP Ref 10-09849

JUNE 78 LEVEL 4

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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SEARCH FOR

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION OPERATIONS

QUERY-PART NO. MNU010

OCT 17 1978

DOCUMENT
NUMBER

10-COO256 F

BOEING CO.
(U) VOYAGE SUMMARY OF HIGH POINT PCW-1 TECHNICAL
TRAIL DEPLOYMENT JAN 5, TO MAR 15, 1971
SALISBURY, V.
D2-133634-1
RELEVEV 5
REMARKS: REF TRIALS PLAN NEM026-P226 (10-U07188)

BOEING CO.
(U) PATROL CRAFT HYDROFOIL HIGH POINT TRIAL SUMMARY
AND LOGS FOR THE TRANSITS, DEMONSTRATIONS, AND
ROUGH WATER TRIALS OF THE SAN DIEGO DEPLOYMENT
ROBERTS, G.B.
D2-133703-56-1
NO0600-69-C-0618
REMARKS: REF TRIALS PLAN NEM026-P226 (10-U07188)

BOEING CO.
(U) PATROL CRAFT HIGH POINT TRIAL SUMMARY AND LOGS
FOR THE MISSION TRIALS OF THE SAN DIEGO
DEPLOYMENT
ROBERTS, G.B.
D2-133703-56-2
NO0600-69-C-0618
REMARKS: REF TRIALS PLAN NEM026-P226 (10-U07188)

BOEING CO.
(U) PATROL CRAFT HYDROFOIL HIGH POINT TRIAL SUMMARY
AND LOGS FOR THE EVALUATION TRIALS OF THE SAN
DIEGO DEPLOYMENT
ROBERTS, G.B.
D2-133703-56-3
NO0600-69-C-0618
REMARKS: REF TRIALS PLAN NEM026-P226 (10-U07188)

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
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BOEING CO.
(U) TRIALS PLAN-AGEM-1 INTEGRATED TRIALS PROGRAM (16

PPI)
NOV 72 RELEV 7

REMARKS: CANCELLED

BOEING CO.
(U) TRIALS PLAN PCH-1 REMOTE OPERATION EVALUATION (9

PPI)
MAY 73 RELEV 5

BE167-P221

REMARKS: REF APTS 10-U01874 AND 10-U02632

BOEING CO.
(U) TRIALS PLAN PCH-1 TECHNICAL EVALUATION DURING

USCG OPERATION (7 PPI)
APR 75 RELEV 5

BE223-P332

NO060-75-C-1107

REMARKS: REF-APTS-10-U08487

DAVID W. TAYLOR NAVAL SHIP RD CENTER
(U) PCH-1 EXERCISE ADMIRALTY TRIALS (U) (76 PP)

1 COMPREHENSIVE REPORT OF 4-DAY OPERATION
ROBERTS, J.M.
LTRSER-01-72 MAR 72 RELEV 4

REMARKS: REF TRIALS PLAN NE028-P230 (10-U0872B) AND
REPORT 10-S00115

DAVID W. TAYLOR NAVAL SHIP RD CENTER
(U) PCH-1 EXERCISE COMPTUE 1-71 TRIALS (U) (46 PP)

ROBERTS, J.M.
SER 02-72 APR 72 RELEV 4

REMARKS: REF TRIALS PLAN NE028-P226 (10-U07188)

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION OPERATIONS

QUERY-PART NO. MNG010

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) SUMMARY OF HYDROFOIL PARTICIPATION IN FLEET
EXERCISES (U)(15 PP)
RABEL, C.R.
REMARKS: REF TRIALS PLAN NE208-P226 (10-U0718B)

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 MOD-1 SMOOTH WATER
CHARACTERISTICS (23 PP)
O'NEILL, W.C.
APR 73 RELEV 5
NU0428-P290
LTR PCH:JMR:HFS:SER 11-73
REMARKS: REF RPT 10-U09810-TURNING, TRIM AND STEP
RESPONSE CHARACTERISTICS

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) HIGH POINT (PCH-1) TRANSIT FROM BREMERTON,
WASHINGTON TO SAN DIEGO, CALIFORNIA AND RETURN
ROBERTS, J.W. MAY 73 RELEV 5
LTR PCH:JMR:HFS:SER 11-73
REMARKS: REF TRIALS PLAN BE 167-P221 (10-U06937) AND
REPORT 10-U01974

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) PLAINVIEW (AGEH-1) POST OVERHAUL OPERATIONAL
LIMITS SEPTEMBER 1976 (17 PP)
LTR-SER 158-78
REMARKS: OPERATIONAL RED LINE LISTINGS

GENERAL ELECTRIC CO.
(U) COMPATIBILITY EVALUATION AND DEMONSTRATION
BETWEEN ASW TORPEDO ARRAY SONAR AND HIGH SPEED
CRAFT (U)(26 PP)
SEPT 73 RELEV 4

10-U007241 F

10-U02632 F

10-U08456 N

10-U00109L

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HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
MISSION OPERATIONS

QUERY-PART NO. MNNO10 OCT 17 1978
DOCUMENT NUMBER

CALIFORNIA AEROSPACE CORP.
(U) AGEMH-1 IN SUPPORT OF FUTURE HYDROFOIL SYSTEMS
DEVELOPMENT-FISCAL YEAR 1974:VOL 1 HISTORICAL
COMPENDIUM OF INVESTIGATIONS CONDUCTED IN FISCAL
YEAR 1974 (U)(53 pp)

JULY 74 RELEV 4

N00406-74-C-0632

REMARKS: SOME COST ESTIMATES INCLUDED

10-C00776 LM

CALIFORNIA AEROSPACE CORP.
(U) USE OF PLAINVIEW (AGEMH) TO EVALUATE ACTIVE
PASSIVE RELIABLE ACOUSTIC PATH SONAR (APRAPS)
SYSTEM (42 pp)

MAR 258-070-1 FEB 76 RELEV 5

N00600-75-C-0246

REMARKS: SEE COMMENTS ATTACHED TO BACK COVER

HUGHES AIRCRAFT CO.
(U) LIGHTWEIGHT WEAPON SYSTEM DEMONSTRATION PLAN FOR
A LARGE HYDROFOIL (U) (53 pp)

MAR 75 RELEV 4

N00406-75-C-1068

REMARKS: GOOD DISCUSSION OF AAW ENGAGEMENT
GEOMETRIES.

10-U0775 LM

NAVAL ELECTRONICS LABORATORY CENTER
(U) COMMENTS ON PCM-1 IN EXERCISE ADMIRALTY (U)(2 pp)
MCMAHON, C.A. JAN 72 RELEV 4
LTR N232-001/J601

REMARKS: REF TRIALS PLAN NEE028-P230 (10-U06728)

10-C00983 M

NAVAL ELECTRONICS LABORATORY CENTER
(U) COMMENTS ON PCM-1 IN EXERCISE ADMIRALTY (U)(2 pp)
MCMAHON, C.A. JAN 72 RELEV 4
LTR N232-001/J601

REMARKS: REF TRIALS PLAN NEE028-P230 (10-U06728)

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10-S00115

SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION OPERATIONS

QUERY-PART NO. WNSH010

OCT 17 1978

DOCUMENT
NUMBER

NAVAL ELECTRONICS LABORATORY CENTER
(U) TRIALS PLAN-PCH-1 IN EW TRIALS-INSTALLATION PLAN
BERESFORD, D.M.
NAME, D.R.
NE029-300
REMARKS: REF RPT 10-500133

NAVAL ELECTRONICS LABORATORY CENTER
(U) TRIALS PLAN-PCH-1 IN EW TRIALS-INSTALLATION PLAN
17 PPI
BERESFORD, D.M.
NAME, D.R.
NEC36-319
REMARKS: EQUIPMENT INSTALLED-NO REPORT REQUIRED

NAVAL ELECTRONICS LABORATORY CENTER
(U) HYDROFOIL SHIP SIGNATURE EVALUATION STUDY (U)
(102 PPI)
EPSTEIN, R.R. FEB 76 RELEV 3
NELC LTR SER 0232-S19
REMARKS: REF TRIALS PLAN NM036A-A280 (10-U07239).
EXCELLENT REVIEW OF EXISTING HYDROFOIL SIGNATURE
INFO.

NAVAL SURFACE WEAPONS CENTER, OAHU GREEN, VIRGINIA
(U) RESULTS OF THE VERSATILE ELECTRO-OPTICAL SYSTEM
SHIPBOARD DEMONSTRATION ABOARD THE USS SAGINAW
(LST-1188) (U)
TOMAR, J.M. MAY 76 RELEV 3
NSAC/OL TN-3491
ADCO06147
REMARKS: DESCRIBES AT-SEA-DEMONSTRATION OF (VEOS)
FOR AMPHIBIOUS AND FIRE CONTROL MISSIONS. SEE
HYDROFOIL TRIALS PLAN MY95-P314 (10-U07163)

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SHARP SEARCH RESULTS 7 ADVANCED SHIP DATA BANK

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SEARCH FOR
HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
MISSION OPERATIONS

QUERY-PART NO. WNO010

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DOCUMENT

NUMBER

OCT 17 1978

10-C00400 M

NAVAL TORPEDO STATION, KEYPORT, WASHINGTON

(U) PLAINVIEW (AGEN-1) TORPEDO LAUNCHING TRIALS OF 23

FEBRUARY 1972 (U)(35 PP)

AIRTR. S.P.

RPT-1160

SEPT 72 RELEV 4

NR-2-0129

REMARKS: REF TRIALS PLAN WNO034-1282 (10-U07234)

U. S. COAST GUARD

(U) OPERATIONAL EVALUATION OF THE HYDROFOIL CONCEPT
FOR U. S. COAST GUARD MISSIONS, PHASE III
REPORT C. OPERATIONS WITH USCGC HIGH POINT (INCH-
11 1165 PP)
IRVINE, J.F.
BLAKE, D.T.
CG-5-192-5

REMARKS: REF RPT 10-U09849

0-U084877 M

U. S. COAST GUARD
(U) OPERATIONAL EVALUATIONS OF THE HYDROFOIL CONCEPT
FOR US COAST GUARD MISSIONS-EXECUTIVE SUMMARY (24
PP)
EHIRONON, P.L.

WILLIAMS, R.Z.

CG-D-14-78

ADA022499

0-U07463 M

U. S. NAVY HYDROFOIL HIGH POINT (INCH-1)
(U) FINAL REPORT ON HYDROFOIL SPECIAL TRIALS UNIT
MISSION PLAN BE 167-P221-PCH-1; REMOTE OPERATION
EVALUATION PLAN
ROBERTS, J.H.
LTR PCH1:UHR:MF, SER 10-73
REMARKS: REF TRIALS PLAN BE 167-P221 (10-U06937) AND
RPT 10-U02632

10-U01974 F

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STRUCTURES

SHARP SEARCH RESULTS > ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

QUERY-PART NO. WNH011

OCT 17 1978

DOCUMENT NUMBER

BOEING CO.
(U) HYDROFOIL CRAFT STRUCTURAL CRITERIA-RELATED
EXPERIENCE

CORN, R.

FRENCH, H.

WATSON, F.

D221-11000-2

N06600-71-C-0556

REMARKS: FOR RECOMMENDATIONS FOR CRITERIA
DEVELOPMENT. SEE BOEING DOC. D221-11000-3
(REF NO. UO-4820) CURRENTLY UNDER NAVY REVIEW.

BOEING CO.

(U) SEARCH FOR STRUCTURALLY SIGNIFICANT SMOOTH WATER
MANEUVERS ON PCW MOD-0 (6 PP)

AUG 72 RELEV 5

LTR-2-1508-100C-686

N06600-69-C-0618

REMARKS: LIST OF TAPES AND TIMES WHERE EXTREME
MANEUVERS WERE EXPERIENCED. ALSO SUMMARY OF
4/30/68 LOG IMPACT

BOEING CO.

(U) TEST TECHNIQUE DEVELOPMENT-STRUCTURAL DEFLECTION
MEASUREMENT ON PCW-1: CANCELLATION OF (1 PP)
HYSTU PLAN BE205-PC

DEC 72 RELEV 7

BOEING CO.

(U) WAIN STRUT EXTENSION/RETRACTION SYSTEM TEST
RESULTS
SOENSON, D.

JAN 73 RELEV 5

LTR-2-1524-1000-835

N06600-69-C-0618

REMARKS: INSUFFICIENT AND INCOMPLETE ANALYSIS AND
DOCUMENTATION

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SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 2

DETROIT R AND D TRIALS DOCUMENTATION SUMMARY
STRUCTURAL

SEARCH NO. UN4011

OCT 17 1978

DOCUMENT NUMBER

BOEING CO.
(U) STRUCTURAL INSPECTION-AGEH-1 PLAINVIEW PRE-ROUGH
WATER TESTING (1972) HYSTU PLAN 8E129-A1971
LTR 2-1524-1000-927 JAN 73 RELEV 4
N00600-69-C-0618

BOEING CO.
(U) PLAINVIEW SHIP MOTIONS AND ACS OPERATION

FOLLOWING THE STARBOARD FOIL INCIDENCE CONTROL
LINKAGE FAILURE

COLVAN, J.T. MAR 73 RELEV 2
TN-2-15
N00600-69-C-0618

REMARKS: ALSO SEE NSRDC MEMO, DB NO. 10-U2263

BOEING CO.
(U) PLAINVIEW SHIP MOTIONS AND ACS OPERATION

COMPATIBILITY TESTS ON PLAINVIEW (AGEH-1)

MAY 73 RELEV 4
LTR 2-1524-1000-949

N00600-69-C-0618
REMARKS: REF TRIALS PLAN NM0404-A272 (10-U07239)

BOEING CO.
(U) AGEN-1, AFT STRUT STRUCTURAL REVIEW, STATION 75

TO 125 MAY 73 RELEV 4
ROUND, D.M. LTR 2-1524-1000-961
N00600-69-C-0618

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

QUERY-PART NO. MNNO11

OCT 17 1978

DOCUMENT NUMBER

10-U02769 M

BOEING CO.
(U) INCIDENCE CONTROL ROD LOADS AND FOIL ANGLE
DISPLACEMENTS PLAINVIEW, AGEH-1

ROUND, D.H.
YOUNGSTROM, W.R.
LTR 2-1524-1000-1074
NO0600-69-C-0618

REMARKS: REF. MYSTU WTA NO. 081B-73-068A

BOEING CO.
(U) STRUCTURAL MONITORING REQUIREMENTS FOIL AND STRUT
INSTRUMENTATION SYSTEM HIGH POINT PCH-1 (MOD 1115
NOV 1973
ROUND, D.H.
LTR 2-1524-1000-1133
NO0600-69-C-0618
REMARKS: REVISED

BOEING CO.
(U) SHIP BEHAVIOR DURING HARPOON/HYDROFOIL
COMPATIBILITY TESTS ON HIGH POINT (PCM-1)

MAR 74 RELEV 4
LTR 2-1524-1000-1192
NO0600-69-C-0618
REMARKS: REF TRIALS PLAN CRW045-P305 (10-U07247)

BOEING CO.
(U) BOEING RECOMMENDED ITEMS FOR NSRDC WORKSHOP (JUNE
1974)
JUNE 74 RELEV 5

BOEING CO.
(U) SHIP BEHAVIOR DURING HARPOON/HYDROFOIL
COMPATIBILITY TESTS ON HIGH POINT (PCM-1)

MAR 74 RELEV 4
LTR 2-1524-1000-1192
NO0600-69-C-0618
REMARKS: REF TRIALS PLAN CRW045-P305 (10-U07247)

BOEING CO.
(U) BOEING RECOMMENDED ITEMS FOR NSRDC WORKSHOP (JUNE
1974)
JUNE 74 RELEV 5

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
STRUCTURAL

QUERY-PART NO. MNNO11

OCT 17 1978

DOCUMENT
NUMBER

10-U05711 M

BOEING CO.
(U) LATERAL BENDING MOMENT LOADS AND RUDDER TORQUES
AFT STRUT, PLAINVIEW (AGEM-1). 1 AND 9 NOVEMBER
1972 (139 PP)

OCT 74 RELEV 4
ACUNO, D.M.
LTR 2-1524-1000-1333
N00600-69-C-0618

REMARKS: REF TRIALS PLAN BE138-A279 (10-U06961).
CONTAINS DATA ON CYCLIC LOAD MEASUREMENTS
OBTAINED IN SEA STATE 3.

10-U05720 M

BOEING CO.
(U) HULL IMPACT TRIALS (89 PP)
WAJSOR, F.B.
TN-A-17

OCT 74 RELEV 4
N00600-69-C-0618
REMARKS: REF TRIALS PLAN BE138-A248 (10-U06820).
PROVIDES CORRELATION BETWEEN MEASURED AND
PREDICTED RIGID BODY MOTIONS. REPORT IS LIMITED
IN TERMS OF VALIDATING THE PREDICTION TECHNIQUES.

10-U06820 F

BOEING CO.
(U) TRIALS PLAN-AGEM-1 HULL IMPACT CHARACTERISTICS
(129 PP)
BE138-A248
REMARKS: REF RPT 10-U05720 (TN-A-17)

10-U06245 M

BOEING CO.
(U) AFT NACELLE CRACKS, HIGH POINT (PCH-1). 1974-1975
RAV (136 PP)
ROUND, D.M.
LTR 2-1524-1000-1448
N00600-75-R-5007

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HYDROFOIL: A AND D TRIALS DOCUMENTATION SUMMARY
STRUCTURAL

QUART-PART NO. MNM011

OCT 17 1978

DOCUMENT NUMBER

BOEING CO.
(U) INVESTIGATIONS OF BOLTS FROM PCH-1 MOD-1 (10 PP)
ROBERTS, E.C.
APR '75 RELIEV 4
METAL LAB RPT-S057

BOEING CO.

(U) PCH-1 TRANSMITTAL OF REPORT (PHASE 1) STRUCTURAL
STRAIN GAGE RESPONSES DURING THE STARBOARD
FORWARD PROPELLER SHAFT FAILURE OF 9-26-75 (18 PP)
RAND, A.H.
NOV '75 RELIEV 4
LTR 1524-1000-1608
N0060-75-C-1107

BOEING CO.

(U) WORK AND ANALYSIS PLAN FOR HYDROFOIL LOADS
CRITERIA SUPPORT-HIGH POINT (PCH-1) MOD 1: REPORT
NO. 3 LOADING INCIDENTS-ROUGH WATER TRIALS. NOV-
DEC 1975 (25 PP)
ROUND, D.H.
FEB '76 RELIEV 5
LTP M-73CB-1000-1706
N0060-75-C-1107
REMARKS: A TABULATION OF HIGH OR UNUSUAL LOADING
INCIDENTS DURING THE ROUGH WATER TRIALS OF PCH.

BOEING CO.

(U) FATIGUE ANALYSIS OF THE PCH-1 KING POST (45 PP)
ROUND, D.H.
MAR '77 RELIEV 4
PSI-6

BOEING CO.

(U) FAILED AGEH-1 PROPELLER M & P METALLURGICAL
LABORATORY SUPPORT (7 PP)
ROBERTS, E.
DEC '77 RELIEV 4
2-5G-A-0677-276
N0060-75-C-1107
REMARKS: REI-MTA-11C7-77-010A & D/B MO. 13-009827

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
STRUCTURAL

QUERY-PARTY NO. MNNO11

OCT 17 1978

DOCUMENT
NUMBER

10-U09827
BOEING CO.

(U) AGENT-1 FAILED PROPELLER BLADE FATIGUE TEST
LABORATORY TEST REPORT (5 PP)
ROBERTS, E. MAR 78 RELEV 4
2-518-0078-048
N0020-75-C-1107
REMARKS: REF-TNA-1107-77-010A-REV-1 & D/B NO.
10-U09828

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
10-C00760

(U) PCN-1 EXECUTIVE ADMIXTURE TRIALS (U) (76 PP)
INCOMPREHENSIVE REPORT OF 4-DAY OPERATION
ROUGHTON, J.M. MAR 72 RELEV 4
LTR-CR-01-72
REMARKS: REF TRIALS PLAN N002B-P230 (10-U09728) AND
REPORT 10-S00115

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
10-U07148 F
(U) TRIALS PLAN-AGENT-1 DESIGN AND INSTALLATION OF
PERMANENT STRUT SPRAY FENCES (5 PP)

AUG 72 RELEV 7
HY078-A274
REMARKS: REF RPTS 10-U01898 (FENCES WERE LATER
REMOVED). NO FINAL REPORT RELEASED.

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
10-U07149 F
(U) TRIALS PLAN-AGENT-1 DESIGN FABRICATION AND
INSTALLATION OF LENGTHENED/STRENGTHENED HY-120
TAIL STRUT (9 PP)
AUG 72 RELEV 5
HY079A-A276
REMARKS: SEE GRUMMAN DESIGN AND CONSTRUCTION
DOCUMENTATION

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
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QUERY-PART NO. WMA011

OCT 11 1978

DOCUMENT
NUMBER

DAVID M. TAYLOR NAVAL SHIP R&D CENTER 10-U01230 M
(U) MEASUREMENT OF AGEH STRUT-TOLK AND HULL DYNAMIC
CHARACTERISTICS BY PLUCK TEST
PEOPLES, J.R.
TAE-SAD-13E-1966
RELEV 2

REMARKS: PROVIDES VERIFICATION OF ANALYTICAL AND
EXPERIMENTAL TECHNIQUES

DAVID M. TAYLOR NAVAL SHIP R&D CENTER 10-U05840 M
(U) FATIGUE DAMAGE SURVEY OF EXISTING HIGH
PERFORMANCE SURFACE SHIPS (14 PP)
JOHNSON, W.S.
TN-SD-173-236
DEC 72 RELEV 4

DAVID M. TAYLOR NAVAL SHIP R&D CENTER 10-U01441 LM
(U) HYDRODYNAMIC AND STRUCTURAL PARAMETERS FOR
T-FOLLS ON SIX FULL-SCALE HYDROFOIL CRAFT
BESCH, P.K.
TN-SPD-226
RELEV 3
REMARKS: PHM DATA OUT OF DATE AS OF 02/73

DAVID M. TAYLOR NAVAL SHIP R&D CENTER 10-U02263 M
(U) FAILURE OF PLAINVIEW (AGEH-1) STARBOARD FOIL
INCIDENCE LINK, 11 DECEMBER 1972
VARNALL, P.
NEW 73-173-W98
MAR 73 RELEV 2
REMARKS: COMPREHENSIVE DESCRIPTION OF THE FAILURE
AND HULL IMPACT. SEE DB NO. 10-01911

DAVID M. TAYLOR NAVAL SHIP R&D CENTER 10-U07156 F
(U) TRIALS PLAN-AGEH-1 FLAP CONTROL SYSTEM (8 PP)
APR 73 RELEV 5
HY087-A288
REMARKS: REF RPTS 10-U05061, 10-U05055, 10-U02390.
10-U02391 AND 10-U02407

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

QUERY-PART NO. 10NN011

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) SERVICE EXPERIENCES OF STRUT AND FOIL DAMAGE ON
NAVY HYDROFOILS (3 PP)
RABEL, C.R. JUNE 73 RELEV 3
NED20 HF-11A/ 7566-1 GEN
REMARKS: INFORMAL SUMMARY OF DEBRIS IMPACTS. NOT A
COMPREHENSIVE TREATMENT

10-U05675 N

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 MOD-1 CALM WATER STRUCTURAL
TESTS (27 PP)
BUCKLEY, M.H. JUNE 73 RELEV 5
NED049-P294
REMARKS: REF RPTS 10-U05046, 10-U06834, 10-U05847
AND 10-U05118

10-U07245 F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) RESULTS OF INSPECTION OF AGE-1; PLAINVIEW STRUTS
AND FOILS, DURING SEPTEMBER 11-21, 1973
JOHNSON, R.E. OCT 73 RELEV 5
MEMO CODE-173-2

10-U02802 F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) TRIALS PLAN-PCH-1 HARPOON CANISTER LAUNCHER
EVALUATION AND INTERFACE INVESTIGATION (11 PP)
RABEL, C.R. NOV 73 RELEV 5
NED045-P305
REMARKS: REF RPTS 10-U02851, 10-105173, 10-C00733,
10-U05551, 10-U05336, 10-U05337, 10-U05549,
10-U05553, 10-U05559, 10-U05121, AND 10-U05603
MEMO CODE-173-2

10-U07243 F

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) HIGH POINT, PCH-1 MOD 1 DEBRIS AVOIDANCE INCIDENT
ON 5 DECEMBER 1973
YARNALL, P. FEB 74 RELEV 4
MEMO CODE-173-3

10-U05038 N

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
STRUCTURAL

QUERY-PART NO. WNA011

OCT 17 1978

DOCUMENT

NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) RESULTS OF VISIT TO MYSTU, BOEING NAVAL SYSTEMS
DIVISION AND PRELIMINARY RESULTS OF PCH-1 MOD 1
CALM WATER STRUCTURAL TRIALS. FEBRUARY 20-26,
1974
BUCKLEY, M.H.
MEMO CODE-173.J

10-U04996LF

10-U05046 N

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) ADEQUACY OF PCH-1 MOD 1 FORWARD STRUT DESIGN
LOADS
BUCKLEY, M.H. APR 74 RELEV 2
MEMO 173:WMB 74-173-N676
REMARKS: REF TRIALS PLAN NM049-P294 (10-U07245)

10-U05118 N

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PRELIMINARY RESULTS OF PCH-1 MOD 1 ROUGH WATER
TRIALS (STRUCTURAL DATA)
BUCKLEY, M.H.
APR 74 RELEV 4
10-173-N652

10-U05119 F

REMARKS: REF TRIALS PLAN NM054B-P310 (10-U07249).
MEMO ALSO REVIEWS STRUCTURAL DETAILS OF MOD-1
CONTROL SYSTEM

DAVID W. TAYLOR NAVAL SHIP R&D CENTER

(U) PCH-1 MOD 1 KING POST DRAG BENDING

TAYMALL, P. APR 74 RELEV 5

MEMO 173:PV 74-173-N65

REMARKS: DESCRIBES DETAILS OF PCH-2 KING POST
STRUCTURAL CRACK, AND FAILURE

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OCT 17 1978

DOCUMENT
NUMBER

10-U05217 M

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) USS PLAINVIEW (AGH-1) PRELIMINARY VIBRATION
STUDIES-REF TRIALS PLAN NM031-A231 (10-U07231)
SCHAUER, R.E. APR 74 RELEV 2
T&E-SAD-79E-1968

REMARKS: WELL DONE STUDY WHICH COMPARES FULL SCALE
AND ANALYTICAL PREDICTIONS FOR HULL AND FOIL
SYSTEM VIBRATIONAL CHARACTERISTICS AND STRUT
FLUTTER SPEEDS. COMPARISON WITH MIL STD 167B AND
HUMAN VIBRATION TOLERANCES LEVELS ARE ALSO MADE

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U05436 M
(U) HARPOON/HIGH POINT TRIALS : SUMMARY OF STRUCTURAL
SUPPORT ACTIVITIES MAY 74 RELEV 4
YARNALL, P.

LTR-74-173-4682
REMARKS: REF TRIALS PLAN MNNO1A-P302 (10-U07247) AND
NM045-P305 (10-U07245)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U05262 M
(U) INSPECTION TRIP TO U. S. NAVY HYDROFOIL
PLAINVIEW (AGH-1) 12-14 OCT 1973 (TRIP REPORT)
JOHNSON, W.S. JUNE 74 RELEV 2
LTR 74-173-99:173:MSJ

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U05395 M
(U) SEA SPARRON/HYDROFOIL COMPATIBILITY TRIALS
YARNALL, P. JULY 74 RELEV 4
MEMO CODE-173: PY:74-173-M
REF TRIALS PLAN NM010A-A27 (10-U07239)
REMARKS: REF TRIALS PLAN NM010A-A27 (10-U07239)
DOCUMENTS ASPECTS OF TRIAL PERTAINING TO
HYDROFOIL STRUCTURES

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
STRUCTURAL

QUERY-PART NO. BRN011 OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U07256 F

(U) TRIALS PLAN-PCH-1 MOVIES OF STRUCTURAL MANEUVERS
(7 PPI)

YARNALL, P. JULY 74 RELEV 5
NW062-P324C

REMARKS: ONE MOVIE COMPLETED-REMAINDER OF TRIAL
CANCELLED 12111.6315:1092::A:567:2002:0100

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U07257 F

(U) TRIALS PLAN-PCH-1 STRUCTURAL INSTRUMENTATION
INSTALLATION (124 PP)

YARNALL, P. JULY 74 RELEV 5
NW063-P327C

REMARKS: EQUIPMENT INSTALLED-NO REPORT REQUIRED

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U05645 M

(U) SUMMARY OF HYDROFOIL TRIALS PLANNING WORKSHOP
HELD JUNE 12-13 1974

SEPT 74 RELEV 4
LTR 115:DJC:9080 OF 18 SE

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U05684LM

(U) FATIGUE LOADS FOR PHM CONTROL LINKAGES (120 PP)
BUCKLEY, W.H. SEPT 74 RELEV 2
74-173-M187

REMARKS: LOADS ARE DERIVED FROM ANALYSIS OF PCH MOD-
1 TRIALS DATA

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U05770 M

(U) CRACKS IN THE PROPULSION PODS OF HIGH POINT (PCH-
1 MOD-1)
YARNALL, P. NOV 74 RELEV 4
74-173-M208

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
STRUCTURAL

QUERY-PART NO. MNH011

OCT 17 1978

DOCUMENT
NUMBER

10-U06345LF

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) FOIL STRUT INSPECTION: PCH-1 MOD-1 TRIALS SUMMARY

(121 PP)
YARNALL, P.

NOV 74 RELEV 5

JAD/74-173-421

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U07726 M
(U) RESULTS OF PRELIMINARY VIBRATION SURVEY OF PCH-1

PROPELLER GEAR BOX, NOV. 12-14, 1974 (13 PP)
DEC 74 RELEV 4

74-173-M224

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U08541
(U) HYDROFOIL DEBRIS IMPACT HISTORY (13 PP)

MAR 75 RELEV 7
LTR 3000/HYDRO HF-21

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U063356 M
(U) PRELIMINARY RESULTS OF PCH-1 PROPELLER GEAR BOX

STRAIN MEASUREMENTS DURING POST RAY CHECKOUT
(3-21/75) AND IN-AIR TESTS (13-15/75)(18 PP)
BUCKLEY, W. H.
MAY 75 RELEV 4
75-173-M60

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-U09922
(U) NACELLE & FOIL SYSTEM BOLTS, REPLACEMENT OF (11

PP)
OCT 75 RELEV 4
75-173-M149

REMARKS: REF WIA 0610-75-013P

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
STRUCTURAL

QUERY-PART NO. UNNO11

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) POSSIBLE INTERACTION BETWEEN PCH-1, MOD 1 AFT
FOIL SYSTEM VIBRATION MODE AND AUTOMATIC CONTROL
SYSTEM (8 pp)
BUCKLEY, W.
NEDO 75-173-M164

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) REPORT OF VISIT TO BOEING RENTON PLANT 10/28
ATTENDANCE AT HYDROFOIL PROGRAM REVIEW 10/28 AND
10/29, AND VISIT TO NICKUM AND SPAULDING
ASSOCIATES 10/29 (4 pp)
BUCKLEY, W.
LTR-75-173-M162
N00600-75-C-1107

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) REVIEW OF CONTRACTOR FATIGUE LOADS FOR UPPER END
OF PHM-1/PHM-3 FORWARD STRUT (16 pp)
BUCKLEY, W.
CEC 75 RELEV 4
NEDO 75-173-177

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL 1 & VOL II
(U)
TN-SDD-115-18
REMARKS: REF DB/HO 10-S00168

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) UNSTEADY LOADS ON PCH-1 MOD-1 AFTER FOIL SYSTEM
(13 pp)
GILL, D.E.
76-173-967

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OCT 17 1978

DOCUMENT
NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PHM-1 MOD-1 CALM WATER TRIALS DATA FOR
TRANSMISSION TO BOEING FOR COMPARISON WITH SIMILAR
PHM-1 DATA (63 PP)
PHM-1 DATA (63 PP) SEPT 76 RELEV 4
LTR-76-173-M125
REMARKS: DATA ON CALM WATER DEBRIS AVOIDANCE
MANEUVERS AND FORWARD FOIL BROACHES.

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) PHM-1 MOD-1 CALM WATER TRIALS DATA FOR
TRANSMISSION TO BOEING FOR COMPARISON WITH SIMILAR
PHM-1 DATA (63 PP)
GILL, D.E. SEPT 76 RELEV 4
LTR-76-173-M125
REMARKS: REF TRIALS PLAN NM049-P294 (10-U07245)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) BACKGROUND INFORMATION RELATIVE TO RECOMMENDED
SERVICE LIFE PLAN FOR PHM-3 CLASS HYDROFOIL SHIPS
AND IMPLICATIONS RELATIVE TO LONG TERM STRUCTURAL
INITIATIVES
BUCKLEY, W.H. NOV 76 RELEV 2
HEMO-76-173-M146
REMARKS: A GOOD REVIEW OF STRUCTURAL LESSONS LEARNED
AND A SUMMARY OF PHM-1 STRUCTURAL CRACKS.

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) RESULTS OF VISIT TO BOEING (MSD)
OF PHM-3 SERVICE LOADS & PCN-1 (MOD-1) KING POST
FATIGUE ANALYSIS (8 PP)
BUCKLEY, W.H. MAR 77 RELEV 4
LTR-77-173-M69

10-U08865 LM

10-U08868 LM

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DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) IMPROVED SET OF PCH-1 ROD-1 FORWARD STRUT LOAD
CALIBRATION EQUATIONS (18 PP)
GILL, D.E.
MEMO 77-173-M174

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) REVIEW OF FLIGHT SAFETY REQUIREMENTS FOR
STRUCTURAL INSTRUMENTATION ON PLAINVIEW (AGEH-1)
(119 PP)
YARNALL, P.
MEMO 77-173-M176

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TAILS PLAN-AGEH-1 CALM WATER FOIL LOAD
CHARACTERISTICS-PART A (182 PP)
BEACH, J.E.
Na030-A227

REMARKS: NO REPORT

GRUMMAN AEROSPACE CORP.
(U) AGEH FLAP LIFT CONTROL SYSTEM STRESS ANALYSIS
APR 73 RELEV 4

RPT 71B-901-4
N0006-72-C-0729
REMARKS: REF TRIALS PLAN HY087-A2BB (10-U07156). A
VERY VOLUMINOUS REPORT (4 INCHES THICK)

HENRY (J. J.) CO., INC.
(U) FOUNDATION FOR HARPOON LAUNCHER ON PCH-1
1-SCANTLING CALCULATIONS
JUNE 73 RELEV 4
J.O. # 1645-03
REMARKS: REF TRIALS PLAN N0045-P305 (10-U07243)

10-007230 F

10-002407

10-002851 M

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AD-A102 138

WHEELER INDUSTRIES INC WASHINGTON D C
ADVANCED HYDROFOIL DEVELOPMENT TRIALS PROGRAM DOCUMENTATION REV--ETC(U)
OCT 78

N00600-75-D-0799

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
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QUERY-PART NO. WNN011

OCT 17 1978

DOCUMENT
NUMBER

HENRY, (J. J.) CO., INC.
(U) FOUNDATION FOR CANISTER LAUNCHER ON PCH-1
SKETCH NO 100-1
RELEVE 5
REMARKS: REF TRIALS PLAN NNO45-P305 (10-U07243)

NAVAL UNDERSEA CENTER

(U) HYDROFOIL HIGH-SPEED TOWED SYSTEM: TRIAL
EVALUATION PART II SYSTEM DESCRIPTION AND
OPERATIONAL CRITIQUE
CALMINS, D.E.

FORD, L.A.

NUC TP 241: PART II

AD907566L

REMARKS: FOR ALL 5 PARTS SEE DS NOS. 10-U02314 THRU
10-U02318L. NSR DC LIBRARY U006367

10-U02317LM

PUGET SOUND NAVAL SHIPYARD
(U) USS HIGH POINT (PCH-1) -STRUCTUREBORNE AND
AIRBORNE NOISE SURVEY
MAY 74 RELEVE 2
T-10146

REMARKS: REF TRIALS PLAN NAO34A-P301 (10-U0728B)

10-U05493 M

SPAEGENS, (T. M.)
(U) EVALUATION OF TORSIONAL VIBRATION CHARACTERISTICS
OF FOILBORNE PROPULSION SYSTEMS-HYDROFOIL
PLAINVIEW (AGM-11)
SPAEGENS, T.M.
C150B-1
N00406-72-C-0527
REMARKS: INTERIM REPT. SEE DS NO. 10-U02629

10-U02023 M

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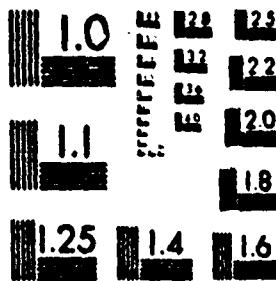
OCT 17 1978

DOCUMENT
NUMBER

10-002029 M

SPAEGENS, T. M.
(U) PRELIMINARY ANALYSIS OF POSSIBLE SOLUTIONS TO
TORSIONAL, FLEXURAL AND LONGITUDINAL VIBRATION
PROBLEMS IN FOILBORNE PROPULSION SYSTEMS;
HYDROFOIL "PLAINVIEW" (AGEH-1)
SPAEGENS, T.M.
C1508-3
NO0406-72-C-0527
REMARKS: SEE DP. NO. 10-002023

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

Hydrodynamics

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HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY

HYDRODYNAMICS/HYDROELASTICITY

QUERY-PART NO. WNA012

OCT 17 1973

DOCUMENT

NUMBER

SOE INC CO.
(U) DETERMINATION OF PCN-1 MULBORNE SEAKEEPING
CHARACTERISTICS

RIGG,
D.F.

TH-P-19

ACG070-69-C-0618

REMARKS: EVALUATES EFFECTS OF ACTIVE CONTROL SYSTEM
AND FOIL POSITION ON MULBORNE MOTIONS

BOEING CO.

(U) HYDROFOIL CRAFT STRUCTURAL CRITERIA-RELATED
EVALUATION

LUND, R.

LEITH, H.

ATKINS, F.

D221-1000-2

N00600-71-C-0556

REMARKS: FOR RECOMMENDATIONS FOR CRITERIA
DEVELOPMENT. SEE BOEING DOC. D221-1000-3
(DS-NQ. UO-4820) CURRENTLY UNDER NAVY REVIEW.

BOEING CO.

(U) STATUS OF SPRAY SHIELD EVALUATION AND
HYDRODYNAMIC OBSERVATIONS. INTERIM REPORT

MCLUE,
D.

LIN-2-1506-1000-448

N00600-69-C-0618

REMARKS: REL TRIALS PLAN HY078-A274 (10-U07148) NO
FINAL REPORT EVER RELEASED

BOEING CO.

(U) TRIALS PLAN-AGEH-1 SIX DEGREE OF FREEDOM DIGITAL
SIMULATION OF THE FOILBORNE (6 PPI)

AUG 72 RELEV S

JAN 73 RELEV S

BE205-4285

REMARKS: REF RPTS 10-U05491

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10-004622 M

10-004696 F

10-006967 F

SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR

HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
HYDRODYNAMICS/HYDROELASTICITY

QUERY-PART NO. MNNO12 OCT 17 1978
DOCUMENT NUMBER

BOEING CO.
(U) DIFFERENCES BETWEEN PREDICTED AND ACTUAL
DIRECTIONAL STABILITY AND PLAT TURNING
CHARACTERISTICS
REF ID: A285 (10-U06967)

REF ID: D.F.
1974 JUNE 23 RELEASE 2

REF ID: A111
REF ID: J-5900
REF ID: C-0610
REF ID: BEM060-69-C-0610
REF ID: BEM060-A285 (10-U06967)

BOEING CO.
(U) LOCATIONS FOR AND RESULTS FROM THE DIGITAL
SIMULATION OF THE FOILBORNE AGEH-1
REF ID: A111
REF ID: J-5900
REF ID: C-0610
REF ID: BEM060-69-C-0610
REF ID: BEM060-A285 (10-U06967)

REF ID: A111
REF ID: J-5900
REF ID: C-0610
REF ID: BEM060-69-C-0610
REF ID: BEM060-A285 (10-U06967)

BOEING CO.
(U) AFM- PLAINFIELD, RESULTS OF PRE-ROUGH WATER
TRIAL, PART A
CHANG, F.
REF ID: A111
REF ID: J-5900
REF ID: C-0610
REF ID: BEM060-69-C-0610
REF ID: BEM060-A273 (10-U06922)

BOEING CO.
(U) BOEING RECOMMENDED ITEMS FOR NSRDC WORKSHOP (JUNE
1974)
REF ID: A111
REF ID: J-5900
REF ID: C-0610
REF ID: BEM060-69-C-0610
REF ID: BEM060-A273 (10-U06922)

BOEING CO.
(U) AFM- PLAINFIELD, RESULTS OF PRE-ROUGH WATER
TRIAL, PART A
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REF ID: A111
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REF ID: C-0610
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(U) BOEING RECOMMENDED ITEMS FOR NSRDC WORKSHOP (JUNE
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REF ID: J-5900
REF ID: C-0610
REF ID: BEM060-69-C-0610
REF ID: BEM060-A273 (10-U06922)

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SHARP SEARCH RESULTS - ADVANCED SHIP - A BANK
SEARCH FOR PAGE 3

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
HYDRODYNAMICS/HYDROELASTICITY

QUERY-PART NO. UNNO12 OCT 17 1978

DOCUMENT NUMBER

BOEING CO. 10-U05953

(U) ANALYSIS OF PEGASUS (PCH-1) AND HIGH POINT (PCH-1
NOD-1) FOIL CAVITATION AND CAMBER (3B PPI)
OCT 76 RELEV 4
W-7520-7904-013

N00223-73-C-0257

REMARKS: REF TRIAL PLAN NM076-P334 (10-U09837)

BUNKER-RAMO CORP. 10-C00019L

(U) ACTIVE/PASSIVE RELIABLE ACOUSTIC PATH SONAR
APRAPS ANALYSIS AND PREDICTION MODEL AND FINAL
TECHNICAL REPORT (U) (198 PPI)
JUNE 77 RELEV 4

DOC NO 50039-7C9

N00223-76-C-6220

REMARKS: GOOD SUMMARY OF APRAPS DEVELOPMENT PROGRESS
TO DATE.

DAVID W. TAYLOR NAVAL SHIP RAD CENTER

(U) TRIALS PLAN-AGEM-1 PRESSURE MEASUREMENTS (23 PP)
WILBAHS, E.A. APR 72 RELEV 5

N0036A-A260

REMARKS: REF RPIS 10-200137. 10-500123. 10-C00978

AND 10-U05531

DAVID W. TAYLOR NAVAL SHIP RAD CENTER

10-U07236 F
(U) MEASUREMENT OF AGEM STRUT-FOIL AND HULL DYNAMIC
CHARACTERISTICS BY "PLUCK" TEST
PEPPLES, J.R. SEPT 72 RELEV 2

TAE-SAD-13E-1966

REMARKS: PROVIDES VERIFICATION OF ANALYTICAL AND
EXPERIMENTAL TECHNIQUES

DAVID W. TAYLOR NAVAL SHIP RAD CENTER

10-U01230 M
(U) MEASUREMENT OF AGEM STRUT-FOIL AND HULL DYNAMIC
CHARACTERISTICS BY "PLUCK" TEST
PEPPLES, J.R. SEPT 72 RELEV 2

TAE-SAD-13E-1966

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SHARP SEARCH RESULTS - ADVANCED SHIP - A BANK

SEARCH FOR PAGE 4

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
HYDRODYNAMICS/HYDROELASTICITY

QUERY-PART NO. MNNO12 OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) HYDRODYNAMIC AND STRUCTURAL PARAMETERS FOR
T-FOILS ON SIX FULL-SCALE HYDROFOIL CRAFT
BESCH, P.M.
FEB 73 RELAY 3
TH-SPU-246

REMARKS: PHM DATA OUT OF DATE AS OF 02/73

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN-AGEM-1 FLAP CONTROL SYSTEM (8 PPI)
APR 73 RELAY 5

HYD87-A288
REMARKS: REF. RPTS 10-U05061, 10-U05055, 10-U02390.

10-UC2391 AND 10-U02407

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) RESULTS OF VISIT TO HYSTU, BOEING NAVAL SYSTEMS
DIVISION AND PRELIMINARY RESULTS OF PCMH-1 MOD 1
CALM WATER STRUCTURAL TRIALS, FEBRUARY 20-26,
1974
BUCKLEY, W.H. MAR 74 RELAY 5
WIND CODE-173.3

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) ADEQUACY OF PCMH-1 MOD 1 FORWARD STRUT DESIGN
LOADS

BUCKLEY, W.H. APR 74 RELAY 2
WIND 173:WMB, 74-173-M76

REMARKS: REF TRIALS PLAN NM049-P294 (10-U07245)

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) FOIL FLAP WIPERS ON HIGH POINT, PCMH-1 MOD 1
VARNALL, P. APR 74 RELAY 4
74-173-W64

10-U0506 M
10-U05120 M

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 5

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
HYDRODYNAMICS/HYDROELASTICITY

QUERY-PART NO. MN0012

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-005277 M

(U) USS PLAINVIEW (AGER-1) PRELIMINARY VIBRATION
STUDIES-REF TRIALS PLAN NM031-1231 (10-007231)
SCHAUBL, R.E. APR 74 RELEV 2

TAE-SAD-79E-1966

REMARKS: WELL DONE STUDY WHICH COMPARES FULL SCALE
AND ANALYTICAL PREDICTIONS FOR HULL AND FOIL
SYSTEM VIBRATIONAL CHARACTERISTICS AND STRUT
FLUTTER SPEEDS. COMPARISON WITH MIL STD 167B AND
HUMAN VIBRATION TOLERANCES LEVELS ARE ALSO MADE

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-005451 M

(U) HYDROELASTIC DESIGN OF SUBCAVITATING AND
CAVITATING HYDROFOIL STRUT SYSTEMS

BESCH, P.H.
LIU, Y.
APR 74 RELEV 1

RPT-4357

REMARKS: PRESENTS DESIGN PROCEDURES AND PARAMETRIC
TRENDS THAT CAN BE USED TO AVOID FLUTTER AND
DIVERGENCE IN HYDROFOIL STRUT-FLUTTER SYSTEMS. A
GOOD SUMMARY OF HYDROELASTIC RESEARCH THAT IS
APPLICABLE TO THE DESIGNER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-005649 M

(U) SUMMARY OF HYDROFOIL TRIALS PLANNING WORKSHOP
HELD JUNE 12-13 1974

SEPT 74 RELEV 4

L79 115:DUC:9080 OF 18 SE

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-007259 F

(U) TRIALS PLAN-PCH-1 FLAP EFFECTIVENESS-STATIC
DYNAMIC DURING MANEUVERS AND FOLLOWING BROACHING
(127 pp)

O'NEILL, W.C.
NM065-329

DEC 74 RELEV 5

REMARKS: NO REPORT RELEASED

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SHARP SEARCH RESULTS - ADVANCED SHI .TA BANK
SEARCH FOR PAGE 6

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

QUERY-PART NO. WNN012

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U07468 M
(U) REPORT OF VISIT TO BOEING RENTON PLANT 10/28,
ATTENDANCE AT HYDROFOIL PROGRAM REVIEW 10/28 AND
10/29, AND VISIT TO NICKUM AND SPAULDING
ASSOCIATES 10/29 (4 pp)
BUCKLEY, W.
LIR-75-173-M162
N00600-75-C-1107

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-C01288LM
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL I & VOL II
(U)
JUNE 76 RELEV 1
TN-SDD-115-1B
REMARKS: REF DB/ND 10-500168

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U07725 M
(U) UNSTEADY LOADS ON PCM-1 MOD-1 AFTER FOIL SYSTEM
(113 pp)
GILL, D.E.
JUNE 76 RELEV 4
76-173-W67

DAVID W. TAYLOR NAVAL SHIP RAD CENTER 10-U08621 M
(U) REVIEW OF PCM-1 FOIL SYSTEM VIBRATION INFORMATION
FOR USE IN PREPARATION OF VIBRATION SURVEY TRIALS
PLAN (48 pp)
YARNALL, P.
AUG 76 RELEV 5
LIR-76-173-9102

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 7

HYDROFOIL K AND D TRIALS DOCUMENTATION SUMMARY

QUERY-PART NO. N00017

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RD CENTER
(U) PCH-1 MOD-1 CALM WATER TRIALS DATA FOR
TRANSMITTAL TO BOEING FOR COMPARISON WITH SIMILAR
PCH-1 DATA (63 PP)

SEPT 76 RELEV 4
LTR-76-173-N125
REMARKS: DATA ON CALM WATER DEBRIS AVOIDANCE
MANEUVERS AND FORWARD FOIL BROACHES.

DAVID W. TAYLOR NAVAL SHIP RD CENTER
(U) PCH-1 MOD-1 CALM WATER TRIALS DATA FOR
TRANSMITTAL TO BOEING FOR COMPARISON WITH SIMILAR
PCH-1 DATA (63 PP)

GILL, D.E.
LTR-76-173-N125
REMARKS: REF TRIALS PLAN N0049-P294 (10-J07245)

DAVID W. TAYLOR NAVAL SHIP RD CENTER
(U) TRIALS PLAN-PCH-1 FORWARD FOIL CAVITATION
VERIFICATION TRIAL (INCLUDES AGENDA) (132 PP)

NW076-P334 NOV 76 RELEV 5
REMARKS: RPT. DUE

DAVID W. TAYLOR NAVAL SHIP RD CENTER
(U) TRIALS PLAN-PCH-1 VDS TRIALS (HYTOP
PROJECT PLAN) (86 PP)

MAR 77 RELEV 5
HY103-P344
REMARKS: REPORT DUE BOEING TO REPORT SHIPS
PERFORMANCE AGAINST WTA 1107-78-010P1

10-U008463 M

10-U008834 M

10-U009837

10-U009836

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 6

M/HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY

QUERY-PART NO. MN0012

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) TRIALS PLAN HYDROFOIL EXPERIMENTAL DETERMINATION
OF AIR/SEA SURVIVAL LOADS (8 PPI)
MAY '77 RELEV 5

REMARKS: NO REPORT RELEASED

DEFENCE RESEARCH ESTABLISHMENT, ATLANTIC
(U) PREDICTION OF PITCH AND HEAVE MOTIONS OF
MULTICRANE HYDROFOIL VESSELS (63 PPI)

DREA RPT-74-2

ADBO02938
REMARKS: CORRELATION LOOK EXCELLENT IN HEAD SEAS.
CORRELATES AGEM MODEL TESTS, FME-400 FULL SCALE
DATA WITH COMPUTER PROGRAM

GRUMMAN AEROSPACE COMP.
(U) ANALYSIS OF AG(EM) PROTOTYPE FORWARD FCA LIFT
AND EXAMEN DATA

WRIGHT, H.R.

NOTE AG-13

REMARKS: A GOOD CRITIQUE AND ANALYSIS OF TRIAL DATA
AND COMPARED WITH MODEL AND THEORETICAL ANALYSIS.

MARINE TECHNOLOGY
(U) COMPUTER SUPPORT IN THE DESIGN AND TESTING OF
UNDERSEA TUNED SYSTEMS

BURROUGHS, J.D.

BENZ, R.C.

VOL 1, NO. 2, PP 159- 172

APR 74 RELEV 3

10-U05127 M
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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK
SEARCH FOR PAGE 9

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
HYDRODYNAMICS/HYDROELASTICITY

QUERY-PART NO. MNNO12 OCT 17 1979

DOCUMENT NUMBER

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TONED SYSTEM: TRIAL
EVALUATION PART I SUMMARY AND D-TA
CALKINS, D.E. AUG 72 RELEV 2
NUC TP 241: PART I
AD907565L

REMARKS: FOR ALL 5 PARTS SEE DB NO. 10-U02314 THRU
10-U02318L. NSRDC LIBRARY NO U006367

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TONED SYSTEM: TRIAL
EVALUATION PART II SYSTEM DESCRIPTION AND
OPERATIONAL CRITIQUE

CALKINS, D.E.

FORD, L.A. AUG 72 RELEV 2
NUC TP 241: PART II
AD907566L
REMARKS: FOR ALL 5 PARTS SEE DB NO. 10-U02314 THRU
10-U02318L. NSRDC LIBRARY U006367

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TONED SYSTEM: TRIAL
EVALUATION PART III: TONLINE HYDRODYNAMIC
PERFORMANCE
CALKINS, D.E.
NUC TP 241: PART III
AD907567L

RELEV 2
AUG 72
RELEV 2
REMARKS: FOR ALL 5 PARTS SEE DB NO. 10-U02314 THRU
10-U02318L. NSRDC LIBRARY NO. U006367

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR

PAGE 10

HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
HYDRODYNAMICS/HYDROELASTICITY

QUERY-PART NO. MNNO012

OCT 17 1978

DOCUMENT
NUMBER

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TOWED SYSTEM: TRIAL
EVALUATION PART IV: DEPRESSOR HYDRODYNAMIC
PERFORMANCE

CALKINS, D.E. AUG 72 RELEV 2
NUC TP 241; PART IV
AD907568L

REMARKS: FOR ALL 5 PARTS SEE DB NOS. 10-U02314 THRU
10-U02318L
NSRDC LIBRARY NO. U006367

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TOWED SYSTEM: TRIAL
VALIDATION PART V: TOWED SYSTEM
(COMPUTER-SIMULATION CORRELATION

CALKINS, D.E.
TUNSTALL, E.B. AUG 72 RELEV 2
BENZ, R.C.
NUC TP 241; PART V
AD907569L

REMARKS: RPT ESTABLISHES VALIDITY OF DIGITAL AND
ANALOG TOWED-SYSTEM SIMULATIONS. SEE DB NOS
10-U02314 THRU 10-U02318L

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 1

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. MNO013

OCT 17 1978

DOCUMENT NUMBER

10-U02836 M

BOEING CO.
(U) DETERMINATION OF PCMH-1 HULLBORN SEAKEEPING
CHARACTERISTICS

REF ID: D.F.

TN-P-19

NO0600-69-C-0618

REMARKS: EVALUATES EFFECTS OF ACTIVE CONTROL SYSTEM
AND FOIL POSITION ON HULLBORNE MOTIONS

BOEING CO.
(U) HYDROFOIL CRAFT STRUCTURAL CRITERIA-RELATED
EXPERIENCE.

CORNH, R.

FRENCH, M.

MATSON, F.

D221-1000-2

NO0600-71-C-0558

REMARKS: FOR RECOMMENDATIONS FOR CRITERIA
DEVELOPMENT. SEE BOEING LOC. D221-1000-3
(OB NO. UO-4820 CURRENTLY UNDER NAVY REVIEW.

BOEING CO.
(U) SPEED AND POWERING TESTS WITH NEW TORQUE AND
THRUST METERS (PCMH-MOD 0)

REF ID: D.

LTP 2-1506-1000-685

NO0600-69-C-0618

REMARKS: GOOD SUMMARY OF PCMH-MOD 0 SMOOTH WATER
SPEED AND POWERING TESTS WITH VARIOUS PROPELLERS

10-U04822 M

APR 72 RELEV 1

AUG 72 RELEV 2

10-U02281 M

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SHAKY SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 2

HYDROFOIL B AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. MNNO13 OCT 17 1978

DOCUMENT NUMBER

BOEING CO. 10-005476LM

(U) ANALYSIS OF THE RIDE QUALITY OF HYDROFOIL SHIP
PCM-1 HIGH POINT, AND CORRELATION OF MEASURED
RIDE PARAMETERS WITH ANALYTICAL PREDICTIONS

MARAU, A.O.

STARKE, D.R. FEB 73 REL/EV 2

LTR 2-1568-3000-075

NO0073-C-0257

REMARKS: MAKES COMPARISON OF VERTICAL AND LATERAL
ACCELERATIONS FOR PCM-HD-0, PCM-HD-1, PHM, PGH-
2 AND JETFOIL

BOEING CO. 10-001911 N

(U) PLATINUM SHIP MOTIONS AND ACS OPERATION
FOLDING THE STANDBOARD FOIL INCIDENCE CONTROL
LIFT-PIPE FAILURE

COLEMAN, J.T. MAR 73 REL/EV 2

TH-A-15

NO0060-69-C-0618

REMARKS: ALSO SEE NSRDC REF. DB NO. 10-U2263

BOEING CO. 10-002444 N

(U) DIFFERENCES BETWEEN PREDICTED AND ACTUAL
DIRECTIONAL STABILITY AND FLAT TURNING
CHARACTERISTICS

MCVAUGHN, R.E.

RIGG, D.F.

TN-A-11

NO0060-69-C-0618

REMARKS: REF TRIALS PLAN 86132A-A241 (10-U06624)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK
SEARCH FOR PAGE 3

HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. MNW013

OCT 17 1978

DOCUMENT NUMBER

10-C00541 N

BOEING CO.
(U) ACTL-1 CURRENT SPEED-POWER CHARACTERISTIC DATA

BC199A-A279 110-U069611

RIGG, D.F.

LTR 2-1524-1000-1114

N000600-69-C-0618

REMARKS: REF TRIALS PLAN BE199A-A279 (10-U069611)

10-C004887 N

BOEING CO.
(U) ACTL-1 ROUGH WATER SPEED-POWER DATA-TRIALS PLAN

BC199A-A279 110-U069611

RIEG, D.F.

LTR 2-1524-1000-1103

N000600-69-C-0618

REMARKS: CONTAIN SPEED, HP, PROP RPM AND TORQUE DATA
FOR SEA STATES 3 AND 4.

10-C004888 N

BOEING CO.
(U) RESULTS OF ROUGH WATER TRIALS (PHASE 1)-TRIALS

PLAN BE 199A-A279 (10-U069611)

ZAKARIAN, A.

OLEHAM, I.I.

1-N-A-15

N000600-C-0-C-0018

REMARKS: CONTAIN ROUGH WATER DATA THRU SEA STATE 4
ONLY FULL-SCALE ROUGH WATER DATA TO DATE.

10-C006245 N

BOEING CO.
(U) AFT HULL/ELLE CRACKS, HIGH POINT (PCH-1). 1974-1975

DAV (16 PPI)

ROUND, D.M.

LTR 2-1524-1000-1448

N000600-75-R-5007

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 4

HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. MNNO13

OCT 17 1978

DOCUMENT NUMBER

10-U08973LN

BOEING CO.

(U) HYDROFOIL COATINGS LOG (34 PP)

SEPT 76

RELEVE 3

MARIN, D. M.

D324-51306-1

A00167-76-04-8241

REMARKS: AN IMPORTANT SUMMARY OF THE HISTORY OF
COATING PERFORMANCE ON U. S. HYDROFOILS-HULL,
FOILS, SURFACES.

10-C01113LN

BOEING CO.

(U) HYDROFOIL RADIATED NOISE (U) (37 PP)

OCT 76

RELEVE 3

ALLEN, W.
D324-14004-1

REMARKS: INCLUDES REVIEW OF ALMOST ALL U. S.
HYDROFOIL ACOUSTIC RADIATED NOISE INFO.

10-C00364 W

BOLT, BERANER AND NEWMAN, INC.

(U) UNDERWATER RADIATED NOISE SIGNATURE OF HYDROFOIL

PLAINVIEW (AGEN-1) (U) TRIALS PLAN NM039A-A267

110-U072381

REMARKS: C.M.
NM039. C.M.
RPT 2504

N00600-73-C-0466

AD506365

REMARKS: EXTENSIVE INVESTIGATION OF TECHNIQUES TO
MEASURE HIGH SPEED CRAFT SIGNATURE. 3-D BEAM
PATTERNS OF AGEN FOILDORNE AT 2 SPEEDS.

10-C00708
F. BERANER AND NEWMAN, INC.

(U) HYDROFOIL HIGH POINT (PCH-1) RADIATED NOISE

SIGNATURE AND TACTICAL CONSIDERATIONS (U) (65 PP)

VILES, P.R.

GOOGS, C.M.

DEC 74

RELEVE 2

110-221

N00600-73-C-0466

REMARKS: REF TRIALS PLAN NM039-P313 (10-U07253)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

SEARCH FOR PAGE 5

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. BHNG13

OCT 17 1978

DOCUMENT NUMBER
10-U02401LM

CHARLES STARN DRAPER LABORATORY
(U) HYDROFOIL UNIVERSAL DIGITAL AUTOPilot
(HMDAP) I-MPHASE 1 FINAL REPORT

DODAN, P.P.
GASBRA, P.S.
DECANIO, F.T.

RPT-745

RPT-745

N00014-67-A-0294-0060
REMARKS: REF. TRIALS PLAN NAO64-P328(10-U07258)

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) SUMMARY OF HYDROFOIL PARTICIPATION IN FLEET
EXERCISES (U)115 PPI
RABEL, C.R.
REMARKS: REF TRIALS PLAN NE206-P226 (10-U07168)

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) AIRBORNE NOISE ANALYSIS OF USS PLAINVIEW (AGEM-1)

AFTER INSTALLATION OF AIR INTAKE PLENUM ACOUSTIC
TREATMENT
ARGINDO, L.J.
LTR APT 27-247

REMARKS: REF TRIALS PLAN MT074A-A242 (10-U07144)

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) MEASUREMENT OF AGEM STRUT-SOI AND MULL DYNAMIC
CHARACTERISTICS BY "PLUCK" TEST
PEOPLES, J.R.
TAF-SAD-13E-1968
REMARKS: PROVIDES VERIFICATION OF ANALYTICAL AND
EXPERIMENTAL TECHNIQUES

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SHIP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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MIDOROFOL 8 AND 9 TRIALS DOCUMENTATION SUMMARY

KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUICK-PART NO. MNO013

OCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) FIRE-PROTECTION SYSTEM IN USS PLAINVIEW (AGM-1)
CUSTASION, R.E.
RPI-3594
AD763566

REMARKS: REF TRIALS PLAN NMO20-A791 (10-U07274)

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) HYDRODYNAMIC AND STRUCTURAL PARAMETERS FOR
T-FOILS ON SIX FULL-SCALE HYDROFOIL CRAFT
DESCH, P.K.
TN-SPD-246

REMARKS: PHM DATA OUT OF DATE AS OF 02/73

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) FAILURE OF PLAINVIEW (AGM-1) STARBOARD FOIL
INCIDENCE LINK, 11 DECEMBER 1972
YARNALL, P.
NATO 73-173-498

REMARKS: COMPREHENSIVE DESCRIPTION OF THE FAILURE
AND HULL IMPACT. SEE DB NO. 10-U0191.

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) SERVICE EXPERIENCE OF STRUT AND FOIL DAMAGE ON
NAVY HYDROFOILS (13 PPI)
PABEL, C.R.
HEC: MF-114/ 9566-1 GEN

REMARKS: INFORMAL SUMMARY OF DEBRIS IMPACTS. NOT A
COMPREHENSIVE TREATMENT

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) ADROUACY OF PCII-1 MOD 1 FORWARD STRUT DESIGN
LOAD,
BUCKLEY, M.M.
WECO 173:WHB. 74-173-W76
APR 74 RELEV 2

REMARKS: REF TRIALS PLAN NMO49-P294 (10-U07245)

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. MH0013

DCT 17 1978

DOCUMENT NUMBER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) USS PLAINVIEW (AGEM-11) PRELIMINARY VIBRATION
STUDIES-MEF TRIALS PLAN NW031-A231 (10-U07231)

SCHAUER, R.E. APR 74 RELEV 2

TAE-SAD-79E-1966

REMARKS: WELL DONE STUDY WHICH COMPARES FULL SCALE
AND ANALYTICAL PREDICTIONS FOR HULL AND FOIL
SYSTEM VIBRATIONAL CHARACTERISTICS AND STRUT
FLUTTER SPEEDS. COMPARISON WITH MIL STD 167B AND
MIL-VAN VIBRATION TOLERANCES LEVELS ARE ALSO MADE

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) HYDROELASTIC DESIGN OF SUBCAVITATING AND
CAVITATING HYDROFOIL STRUT SYSTEMS
BESCH, P.H.

LIU, V. APR 74 RELEV 1

RPT-4257

REMARKS: PRESENTS DESIGN PROCEDURES AND PARAMETRIC
TRENDS THAT CAN BE USED TO AVOID FLUTTER AND
DIVERGENCE IN HYDROFOIL STRUT-FLUTTER SYSTEMS.
A GOOD SUMMARY OF HYDROELASTIC RESEARCH THAT IS
APPLICABLE TO THE DESIGNER

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) INSPECTION TRIP TO U. S. NAVY HYDROFOIL
PLAINVIEW (AGEM-11) 12-14 OCT 1973 (TRIP REPORT)
JOHNSON, W.S. JUNE 74 RELEV 2

LTR 74-173-991173:WSJ

DAVID W. TAYLOR NAVAL SHIP RAD CENTER
(U) FATIGUE LOADS FOR PHM CONTROL LINKAGES (1120 PP)
BUCKLEY, W.M. SEPT 74 RELEV 2

74-173-91187

REMARKS: LOADS ARE DERIVED FROM ANALYSIS OF PHM MOD-
1 TRIALS DATA

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. WANO13 OCT 17 1978

DOCUMENT NUMBER
10-UQ880BLW

DAVID W. TAYLOR NAVAL SHIP R&D CENTER
(U) CHARACTERIZATION OF HYDROFOIL COATINGS ON THE
BASIS OF ADHESION STRENGTH & EROSION RESISTANCE
180 RPI
BOHLANDER, G.S.
PRISLR, H.S.
RPT-76-0048
AD8011563

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-C01088LM
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART I
TECHNICAL ASSESSMENT: HYDROFOIL VOL I & VOL II
(U)
JUNE 76 RELEV 1
TN-SDD-115-18

REMARKS: REF DB/NO 10-S00168

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-S00168L
(U) ADVANCED NAVAL VEHICLE CONCEPT EVALUATION PART II
TECHNICAL ASSESSMENT HYDROFOIL SHIP SIGNATURE
EVALUATION
AUG 76 RELEV 1
TN-SDD-115-19

REMARKS: SECRET SUPPLEMENT REF DB/NO. 10-C01088L.

DAVID W. TAYLOR NAVAL SHIP R&D CENTER 10-UQ8605LM
(U) BACKGROUND INFORMATION RELATIVE TO RECOMMENDED
SERVICE LIFE PLAN FOR PHM-3 CLASS HYDROFOIL SHIPS
AND IMPLICATIONS RELATIVE TO LONG TERM STRUCTURAL
INITIATIVES
BUCKLEY, W.M.
HEO-76-173-N146
REMARKS: A GOOD REVIEW OF STRUCTURAL LESSONS LEARNED
AND A SUMMARY OF PHM-1 STRUCTURAL CRACKS.

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SHARP SEARCH RESULTS - ADVANCED SHIP DATA BANK

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HYDROFOIL R AND Q TRIALS DOCUMENTATION SUMMARY

KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. WMA013

OCT 17 1978

DOCUMENT NUMBER

DEFENCE RESEARCH ESTABLISHMENT, ATLANTIC
10-C00708L
TITLE IS RESTRICTED

JONES, E.A.
OERA IN-N73/3

MAR 73

RELEV 2

DEFENCE RESEARCH ESTABLISHMENT, ATLANTIC
(U) PREDICTION OF PITCH AND HEAVE MOTIONS OF

MULDBURNE HYDROFOIL VESSELS (63' RP)

JAN 74

RELEV 2

OERA RPT-724/2
AD8002938

REMARKS: CORRELATION LOOK EXCELLENT IN HEAD SEAS.

CORRELATES AGENE MODEL TESTS, FME-400 FULL SCALE
DATA WITH COMPUTER PROGRAM

GRUMMAN AEROSPACE CORP.
(U) ANALYSIS OF AGENE PROTOTYPE FORWARD FOIL LIFT
AND MASTIC DATA

BRIGHT, M.R.

NOTE AG-13

REMARKS: A GOOD CRITIQUE AND ANALYSIS OF TRIAL DATA
AND COMPARED WITH MODEL AND THEORETICAL ANALYSIS.

GRUMMAN AEROSPACE CORP.
(U) DETAILED DESIGN OF AGENE FORWARD FOIL FLAP

CONTROL SYSTEM

APR 73

RELEV 3

RPT 71B-801-6

NDA406-72-C-0720

REMARKS: REF TRIALS PLAN HY087-A288 (10-U07156)

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SEARCH FOR PAGE 10

HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
HY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. SHN013

OCT 17 1978

DOCUMENT NUMBER

JOHNS HOPKINS APPLIED PHYSICS LABORATORY 10-000653

(U) ACOUSTICAL MEASUREMENTS OF SURFACE EFFECT SHIPS
(SES 100A AND SES 100B)(U)(125 PP)

MILL, F.K.

DINAN, J.J.

SHAWL, T.R.

RPT OH-73-165

NO0017-72-C-4401

ADCC00435

REMARKS: COMPARATIVE WATERSURFACE NOISE DATA FROM PCH-

1. PCH-1, AGEM-1, PCH-1, DENISON, SRN-4, SES

100A, AND SES 100B. RNA-4.

MARE ISLAND NAVAL SHIPYARD

(U) HYDROFOIL COATINGS PROJECT US HIGH POINT (PCH-1)
SOIL INSPECTIONS AND REFURBISHMENTS-SUMMARY

REPORT COVERING PERIOD 9/69-8/71

JUNE 72

RELEV 3

TM-134.5-71

REMARKS: REF TRIALS PLAN NAO23-2102 (10-007278)

MARINE TECHNOLOGY

(U) COMPUTER SUPPORT IN THE DESIGN AND TESTING OF

UNDERSEA Towed SYSTEMS

BURROUGHS, J.D.

BENZ, R.C.

VOL II, NO. 2, PP 159- 172

APR 74

RELEV 3

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SHARP SEARCH RESULTS - ADVANCED SHIP - A BANK

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**HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3**

QUERY-PART NO. **WNN013**

OCT 17 1978

DOCUMENT
NUMBER

NAVAL COASTAL SYSTEMS LABORATORY

**(U) PRESSURE SIGNATURE MEASUREMENTS OF THE HYDROFOIL
USS PLAINVIEW (AGEM-1) (U)(137 PP)**

WILBANKS, E.A.

VAN BIBBER, V.H.

WCGRAF, C.J.

NCSL-190-73

AD527417

**REMARKS: REF TRIALS PLAN NWD036A-A260 (10-U07238)
DTNSRDC LIBRARY #S12,688**

NAVAL COASTAL SYSTEMS LABORATORY

**(U) INFLUENCE FIELDS OF THE HIGHPOINT PCH-1 (U)(58
PP)**

VAN BIBBER, V.H.

WILBANKS, E.A.

NCSL-230-75

REMARKS: NSRDC LIBRARY #S 13850

NAVAL ELECTRONICS LABORATORY CENTER

**(U) HYDROFOIL SHIP SIGNATURE EVALUATION STUDY (U)
(102 PP)**
EPSTEIN, R.R. FEB 76 RELEV 3
HELC LTR SER 0232-S19
**REMARKS: REF TRIALS PLAN NWD036A-A260 (10-U07238).
EXCELLENT REVIEW OF EXISTING HYDROFOIL SIGNATURE
INFO.**

NAVAL SHIP MISSILE SYSTEMS ENGINEERING STATION

**(U) SEA SPARROW/HYDROFOIL COMPATIBILITY TEST REPORT
GROSS, T.A. JUNE 73 RELEV 2**

TR-276

REMARKS: REF TRIALS PLAN NWD040A-A272 (10-U07239)

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HYDROFOIL A AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. MNND013

OCT 17 1978

DOCUMENT
NUMBER

NAVAL SURFACE WEAPONS CENTER, DAMLGBRN, VIRGINIA
(U) RESULTS OF THE VERSATILE ELECTRO-OPTICAL SYSTEM
SHIPBOARD DEMONSTRATION ABOARD THE USS SAGINAW
LST-1881 (U)

TOKAR, J.M. MAY 78 RELEV 3
NSWC, ODL TR-3491
ADC006147

REMARKS: DESCRIBES AT-SEA-DEMONSTRATION OF (WEOS)
FOR AMPHIBIOUS AND FIRE CONTROL MISSIONS. SEE
HYDROFOIL TRIALS PLAN NO 095-P314 (10-UC7163)

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TONEO SYSTEM: TRIAL

EVALUATION PART I SUMMARY AND DATA
CALKINS, D.E. AUG 72 RELEV 2
NUC TP 241: PART I
AD907565L

REMARKS: FOR ALL 5 PARTS SEE DS NOS. 10-U02314 THRU
10-U02318L. NSRDC LIBRARY NO U006367

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TONEO SYSTEM: TRIAL
EVALUATION PART II SYSTEM DESCRIPTION AND
OPERATIONAL CRITIQUE
CALKINS, D.E.
FORD, L.A.
NUC TP 241: PART II
AD907566L

REMARKS: FOR ALL 5 PARTS SEE DS NOS. 10-U02314 THRU
10-U02318L. NSRDC LIBRARY U006367

10-001051LM

10-U02314LM

10-U02315LM

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. 000013

OCT 17 1978

DOCUMENT NUMBER

10-U02316LM

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TOWED SYSTEM: TRIAL
EVALUATION PART III: TOWLINE HYDRODYNAMIC
PERFORMANCE

CALKINS, D.E.
NUC 1P 241; PART III

AD907567L

REMARKS: FOR ALL 5 PARTS SEE DB NO. 10-U02314 THRU
10-U02318L. NSRDC LIBRARY NO. 0006367

10-U02317LM

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TOWED SYSTEM: TRIAL
EVALUATION PART IV: DEPRESSOR HYDRODYNAMIC
PERFORMANCE

CALKINS, D.E.
NUC 1P 241; PART IV

AD907568L

REMARKS: FOR ALL 5 PARTS SEE DB NOS. 10-U02314 THRU
10-U02318L. NSRDC LIBRARY NO. 0006367

10-U02318LM

NAVAL UNDERSEA CENTER
(U) HYDROFOIL HIGH-SPEED TOWED SYSTEM: TRIAL
EVALUATION PART V: TOWED SYSTEM
COMPUTER-SIMULATION CORRELATION

CALKINS, D.E.
TURSTALL, E.B.

BENZ, R.C.
NUC 1P 241; PART V

AD907569L

REMARKS: RPT ESTABLISHES VALIDITY OF DIGITAL AND
ANALOG TOWED-SYSTEM SIMULATIONS. SEE DB NOS
10-102314 THRU 10-102318L

10-C00197

NAVAL UNDERWATER SYSTEMS CENTER
(U) PCH-1 TOWED ARRAY SONAR SYSTEM HIGH SPEED TEST
RESULTS (U) 44 PP
O'NEILL, R.
RPT SA1AF-C24-75

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HYDROFOIL R AND D TRIALS DOCUMENTATION SUMMARY
KEY TRIALS DOCUMENTS - RELEVANCE 1 THRU 3

QUERY-PART NO. MNN013

OCT 17 1970

DOCUMENT NUMBER

PUGET SOUND NAVAL SHIPYARD 10-U05493 M
(U) USS HIGH POINT (PCH-1) MOD-1-STRUCTUREBORNE AND
AIRBORNE NOISE SURVEY

MAY 74

REFLEV 2

T-10146
REMARKS: REF TRIALS PLAN NAO34A-P301 (10-U05286)

U. S. COAST GUARD 10-U07463 M
101 OPERATIONAL EVALUATIONS OF THE HYDROFOIL CONCEPT
FOR US COAST GUARD MISSIONS-EXECUTIVE SUMMARY (24
PP)
EMRMON, P. L.

DEC 75

REFLEV 3

WILLIAMS, R. E.
CG-D-14-76

ADA022499

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